

2017 – 2018 Undergraduate Calendar

Effective date of information, unless otherwise noted: July 1, 2017.

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The 2017 – 2018 *University of Northern British Columbia Undergraduate Calendar* was prepared by the Office of the Registrar.

Table of Contents

2017 – 2018 Undergraduate Calendar	1
Faculty	4
Officers of the University	13
Tuition and Fees	16
Admissions	21
Undergraduate Regulations and Policies	
Academic Dates	
Programs	
Academic Breadth Requirement	
Associate Degrees	
BA (General)	
BSc (Integrated)	
Anthropology (BA Program)	
Major in Anthropology	
BA Honours — Anthropology	
Joint Major in Anthropology and Geography (BA)	
Biochemistry & Molecular Biology (BSc Program)	
Major in Biochemistry and Molecular Biology	
BSc Honours – Biochemistry and Molecular Biology	
Biology (BSc Program)	
Major in Biology	
BSc Honours – Biology	
School of Business (BComm Program)(DComm Horard)	
Bachelor of Commerce Honours (BComm Honours)	
Major in Accounting	
Major in Finance	
Major in General Business	
Major in Human Resources Management	
Major in International Business	
Major in Marketing	
Chemistry (BSc Program)	
Major in Chemistry	
BSc Honours – Chemistry	
Joint Major in Chemistry/Computer Science	
Joint Major in Chemistry/Mathematics	
Joint Major in Chemistry/Physics	
Computer Science (BSc Program)	
Major in Computer Science	
BSc Honours – Computer Science	
Joint Major in Computer Science/Mathematics	
Joint Major in Computer Science/Physics	
Economics (BA and BSc Programs)	
Major in Economics	
Joint Major in Economics/Global and International Studies	
Joint Major in Economics/Political Science	
Joint Major in Economics/Mathematics	94
School of Education (BEd Program)	96
Elementary Years (Grades K-7)	96
Secondary Years (Grades 8-12)	98
Education Diploma in a First Nations Language and Culture	
(Elementary Years)	.102
Post-Baccalaureate Diploma (Curriculum & Instructional Students)	dies
and Montessori Education)	.105

English (BA Program)	107
Major in English	
Joint Major in English and Environmental Studies	
Joint Major in English/History	
Joint Major in English/Political Science	
Joint Major in English/Women's Studies	
Environmental Engineering (BASc Program)	
Environmental Planning (BPI)	
Major in Northern and Rural Community Planning	
Major in First Nations Planning	
Major in Natural Resources Planning	
Environmental Science (BSc Program)	
Major in Environmental Science	
BSc Honours – Environmental Science	
Environmental Studies (BA Program)	
Major in Environmental Studies	
Joint Major in Environmental Studies and Political Science	
Bachelor of Fine Arts (Fine Arts and Creative Writing)	
(BFA Program)	129
First Nations Studies (BA Program)	
Major in First Nations Studies	
Joint Major in First Nations Studies/Women's Studies	
First Nations Diploma Programs	
First Nations Certificate Programs	
Geography (BA and BSc Programs)	
Geography Program (BA)	
Major in Geography	
Major in Public Administration and Community Development.	
Geography Program (BSc)	
Major in Geography	
Global and International Studies (BA Program)	
Major in Global and International Studies	
Joint Major in Global and International Studies/	1 10
Political Science	148
Health Sciences (BHSc Program)	
Major in Biomedical Studies	
Majors in Community and Population Health	
Bachelor of Health Sciences Honours (BHSc, Honours)	153
History (BA Program)	
Major in History	
BA Honours – History	
Joint Major in History/Political Science	
Joint Major in History/Women's Studies	
Integrated Analytical Skills & Knowledge Program	
Mathematics and Statistics (BSc Program)	
Major in Mathematics	
BSc Honours – Mathematics	
Joint Major in Mathematics/Physics	
Natural Resources Management (BSc Program)	
Major in Forest Ecology and Management	
BSc Honours – Forest Ecology and Management	
Major in Outdoor Recreation and Conservation	
BSc Honours – Outdoor Recreation and Conservation	
Major in Wildlife and Fisheries	
major in vindino ana i lononos	. 00
BSc Honours – Wildlife and Fisheries	166

Nature-Based Tourism Management (BA Program)	169
Major in Nature-Based Tourism Management	169
BA Honours - Nature-Based Tourism Management	171
Northern Studies (BA Program)	
Major in Northern Studies	
School of Nursing (BScN Program)	174
Northern Collaborative Baccalaureate Nursing Program	177
Post-Diploma Baccalaureate Nursing Program	179
Rural Nursing Certificate Program	179
Philosophy	
Physics (BSc Program)	183
Major in Physics	183
BSc Honours – Physics	183
Political Science (BA Program)	185
Major in Political Science	185
Joint Major in Political Science/Women's Studies	186
Psychology (BSc Program)	188
Major in Psychology	188
BSc Honours – Psychology	189
Public Administration Certificate Program	190
Public Administration and Community Development Majo	r190
Russian Studies	191
Social Work (BSW Program)	192
BSW: Child Welfare Specialization	194
BSW: First Nations Specialization	
Child Welfare Certificate	195
Women's Studies (BA Program)	196
Major in Women's Studies	196

Course Descriptions	199
Anthropology (ANTH)	200
Arts (ARTS)	205
Astronomy (ASTR)	205
Biochemistry and Molecular Biology (BCMB)	206
Biology (BIOL)	207
Chemistry (CHEM)	210
School of Business (COMM)	213
Co-operative Education (COOP)	219
Computer Science (CPSC)	219
Economics (ECON)	224
Education (EDUC)	227
English (ENGL)	234
Engineering (ENGR)	238
Environmental Planning (ENPL)	239
Environmental Science and Engineering (ENSC)	241
Environmental Studies (ENVS)	244
First Nations Studies (FNST)	245
Forest Ecology and Management (FSTY)	253
Geography (GEOG)	254
Health Sciences (HHSC)	257
History (HIST)	259
Integrated Analytical Skills & Knowledge (IASK)	264
International Exchange (INTX)	265
International Studies (INTS)	265
Languages	270
Mathematics (MATH)	271
National Outdoor Leadership School (NOLS)	274
Natural Resources and Environmental Studies (NRES)	274
Natural Resources Management (NREM)	275
Northern Studies (NORS)	276
Nursing (NURS)	277
Outdoor Recreation and Tourism Management (ORTM)	283
Philosophy (PHIL)	285
Physics (PHYS)	286
Political Science (POLS)	288
Psychology (PSYC)	292
Social Work (SOCW)	
Statistics (STAT)	
University (UNIV)	
Women's Studies (WMST)	

Faculty

- Abioye, Oyekanmi, Lecturer, Business—MBA (Middlesex) PhD (Cardiff Metropolitan)
- Albers, Sam, Adjunct Professor, Geography—BSc (Victoria) MSc (Northern British Columbia)
- Ali, Khawajan Faran, Assistant Professor, Geography-BSc (Lahore, Pakistan) MSc (UNESCO-IHE Institute for Water Education, Elft, Netherlands) PhD (Saskatchewan)
- Allison, Sandra, Adjunct Professor, Health Sciences—BSc (Calgary) MD, MPH (Manitoba)
- Anderson, Margaret, Professor Emerita, First Nations—BA MA PhD (Michigan)
- Anguish, Penny, Adjunct Professor, Nursing—BScN MScN (Victoria)
- Antoniazzi, Clara, Senior Lab Instructor, Nursing—BSN (Northern British Columbia) MHSc (Deakin) RN
- Aravind, Alex, Professor, Computer Science—BSc MSc (India) MTech (Indian Institute of Technology) PhD (Indian Institute of Science)
- Aukema, Brian, Adjunct Professor, Ecosystem Science and Management – BCS/Bsc (Redeemer) MS (Wisconsin-Madison) PhD (Wisconsin-Madison)
- Babicz, Walter, Adjunct Professor, Political Science BEd (British Columbia) Juris Doctor (Victoria)
- Bai, Ping, Senior Lab Instructor, GIS—BSc (Beijing) MSc (Windsor)
- Bankole, Julius, Lecturer, Business—BSc (Ibadan) MSc (Bejing) (Northern British Columbia)
- Banner-Lukaris, Davina, Associate Professor, Nursing—BSN (Wales) PhD (West England)
- Baraybar, José Pablo, Adjunct Professor, Anthropology, Geography— BSS (Peru) MSc (London)
- Barton, Sylvia, Associate Professor, Nursing- BScN (British Columbia) MSc (N) (Portland) PhD (Alberta)
- Beaumont, Sherry, Professor, Psychology—BA Hons (St Thomas) MA PhD (Waterloo)
- Beaveridge, Jennifer, Adjunct Professor, Nursing- BScN (Victoria) MSN (British Columbia)
- Beedle, Matthew, Adjunct Professor, Geography—BSc (Montana State)
 MA (Colorado) PhD (Northern British Columbia)
- Beeler, Karin, Professor, English—BA Hons (British Columbia) MA PhD (Alberta)
- Beeler, Stan, Professor, English—BA Hons MA (Dalhousie) PhD (Alberta)
- Bellefeuille, Gerard, Adjunct Professor, Social Work BSW MA PhD (Victoria)
- Beveridge, Erin, Senior Lab Instructor, Mathematics and Statistics— BSc MSc (Northern British Columbia)

- Bhullar, Amarjit, Assistant Professor, Economics MA PhD (Punjabi University Patiala)
- Bidgood, Bruce, Associate Professor, Social Work—BA (Brock) MA PhD (Wilfred Laurier)
- Binnema, Theodore, Professor, History—BA (Calvin College) MA PhD (Alberta)
- Bird, Ranjana, Professor, Biology, Health Sciences BSc (Waterloo) MSc PhD (Guelph)
- Blair, Jenia, Senior Lab Instructor, Biology—BSc (Victoria) MSc (Northern British Columbia)
- Bleiker, Katherine, Adjunct Professor, Ecosystem Science and Management – BSc (Victoria) MSc (Northern British Columbia) PhD (Montana)
- Bluskov, Iliya, Professor, Mathematics and Statistics—BSc (Bulgaria) MSc (Victoria) PhD (Simon Fraser)
- Bogdanski, Bryan, Adjunct Professor, Economics, Ecosystem Science and Management—BA (Queens) MA (Simon Fraser) PhD (British Columbia)
- Booth, Annie, Professor, Ecosystem Science and Management (Environmental Studies)—BA (Victoria) MES (York) PhD (Wisconsin) MCIP
- Bouchard, Michel, Professor, Anthropology—BA (Toronto) MA (Laval) PhD (Alberta)
- Bourque, Helen, Adjunct Professor, Nursing BScN (Dalhousie) MScN FNP (Northern British Columbia)
- Bowles, Paul, Professor, Economics—BSc Hons (Southampton) MA (Sussex) PhD (London School of Economics)
- Bryce, Benjamin, Assistant Professor, History—BA (British Columbia) MA PhD (York)
- Budde, Robert, Professor, English—BEd BA MA (Manitoba) PhD (Calgary)
- Burke, Susan, Assistant Professor, Social Work—BA (Trinity) MSW PhD (Northern British Columbia)
- Burrows, Marja, Lecturer, Education—BA BSW (Lakehead) MEd (Northern British Columbia)
- Burton, Carla, Adjunct Professor, Ecosystem Science and Management—BEd (British Columiba) MSc PhD (Victoria)
- Burton, Philip, Professor, Ecosystem Science and Management—BSc (Hons) (Saskatchewan) MS (Hawaii) PhD (Illinois)
- Buse, Christopher, Adjunct Professor, Health Sciences—BA (Alberta) MA (British Columbia) PhD (Toronto)
- Cade-Menun, Barbara, Adjunct Professor, Ecosystem Science and Management —BSc Hons (Queens) MSc PhD (British Columbia)
- Callaghan, Russell, Professor, Northern Medical Program and Adjunct Professor, Health Sciences-BA MA (British Columbia) PhD (Toronto)

- Carroll, Alan, Adjunct Professor, Ecosystem Science and Management—BSc (Simon Fraser) PhD (UNB)
- Casas Aguilar, Anna, Adjunct Professor, Global and International Studies—BA (Barcelona) MA PhD (Toronto)
- Casperson, David, Associate Professor, Computer Science—BSc Hons (Simon Fraser) MA PhD (Waterloo)
- Chen, Jing, Assistant Professor, Business—BS (Shanghai) MS (Beijing) PhD (Michigan)
- Chen, Liang, Professor, Computer Science—BSc (Huazhong) PhD (Institute of Software, Acadamia Sinica)
- Chisholm, Anne, Adjunct Professor, Nursing BScN (St. Francis Xavier) MSc (Boston)
- Chng, Nicholas, Adjunct Professor, Physics —BSc MSc (Queens) PhD (British Columbia)
- Choi, Sungchul, Professor, Business—BBA (Pusan) MBA (Pusan) PhD (Alberta)
- Chowdhury, Reza, Associate Professor, Business—BSc (North South) MA (New York) MA PhD (Alberta)
- Chun, Wootae, Assistant Professor, Business—BSc (Ohio) MBA (Texas) PhD (Saint Louis)
- Clague, John, Adjunct Professor, Ecosystem Science and Management—BSc (Occidental) MSc (Berkley) PhD (British Columbia)
- Clements, Gerritt, Adjunct Professor, Nursing—BA (Calgary) LLB (Alberta)
- Climenhage, James, Adjunct Professor, Psychology BA MA PhD (Simon Fraser)
- Colbourne, Rick, Adjunct Professor, Business PhD (Cambridge)
- Connell, David, Associate Professor, Ecosystem Science and Management—BA (Toronto) BComm Hons (Windsor) MBA (Windsor) PhD (Guelph)
- Constantin, Alina, Senior Lab Instructor, Northern Medical Program MD (Carol Davila) MSc PhD (York)
- Costello, Allan, Adjunct Professor, Ecosystem Science and Management – BSc (Memorial) PhD (British Columbia)
- Costello, Bridget Meghan, Senior Lab Instructor, Physics BSc Hons (Victoria) MSc (Calgary
- Cousineau, Stephanie, Adjunct Professor, History—BA Hons (Calgary) MA (New Brunswick) PhD (Calgary)
- Coxson, Darwyn, Professor, Ecosystem Science and Management— BSc (Lethbridge) PhD (McMaster)
- Cronshaw, Steven, Professor Emeritus, Business, Psychology —BA BComm (Saskatchewan) MA PhD (Akron)
- Cuthbertson, Mike, Lecturer, Business—BComm (British Columbia) CA
- Dale, Mark, Professor, Ecosystem Science and Management—BSc MSc (Toronto), PhD (Dalhousie)
- Dawson, Russell, Professor, and Canada Research Chair, Avian

- Ecology, Ecosystem Science and Management—BSc PhD (Saskatchewan)
- Day, Tracey, Adjunct Professor, Nursing BSc MScN (Northern British Columbia) PhD (Gonzaga)
- De Feo, Alberto, Adjunct Professor, Political Science—BSc (Liceo Scientifico Battaglina) PhD (Camerino)
- de Leeuw, Sarah, Associate Professor, Health Sciences, Northern Medical Program and Adjunct Professor, Geography—BA (Victoria) MA (Northern British Columbia) PhD (Queen's)
- deLong, Craig, Adjunct Professor, Ecosystem Science and
 Management—BSc (Victoria) MSc (Northern British Columbia)
- Deo, Balbinder, Associate Professor, Business—BSc MSc (Amritsar) MBA (Shimla) PhD (Ludhiana and Manitoba)
- Déry, Stephen, Professor, Environmental Science and Engineering— BSc MSc (York) PhD (McGill)
- DeWiel, Boris, Associate Professor, Political Science—BA (Athabasca) MA PhD (Calgary)
- Dickson, Lisa, Associate Professor, English—BA (Guelph) MA PhD (McMaster)
- Dobrowolski, Edward, Assistant Professor, Mathematics and Statistics

 –MS PhD (Wroclaw)
- Dodenberg, Heidi, Senior Lab Instructor, Nursing—BSc (Victoria) BSc Hons (Toronto)
- Duchesne, Annie, Assistant Professor, Psychology BSc (Quebec in Montreal) MSc (Montreal) PhD (McGill)Dunbar, Heidi, Adjunct Professor, Nursing —BScN (Victoria) MN (British Columbia)
- Eakins, Darby, Adjunct Professor, Health Sciences BSc (Dalhousie) MA (Northern British Columbia)
- Earley, Sinead, Lecturer, Geography—BA (British Columbia) MA (National University of Ireland Galway)
- Egger, Keith, Professor, Ecosystem Science and Management—BSc (Calgary) PhD (Victoria)
- Elkin, Ché, Associate Professor, Ecosystem Science and Management—BSc (Regina) MSc (Toronto) PhD (Calgary)
- Emmons, Scott, Senior Lab Instructor, GIS—BSc (Northern British Columbia)
- Erasmus, Daniel, Senior Lab Instructor, Biochemistry—BSc MSc (Stellenbosch) PhD (British Columbia)
- Evanson, Celia, Adjunct Professor, Nursing BScN MScN (Victoria)
- Fellers, Wendy, Lecturer, Business—MBA (Seattle) CGA
- Fondahl, Gail, Professor, Geography—BA (Dartmouth College) MA PhD (California, Berkeley)
- Fraser, Tina, Associate Professor, Education, and Adjunct Professor, First Nations, Nursing—BSc (Idaho) MEd (Simon Fraser) PhD (British Columbia)
- Fredeen, Arthur, Professor, Ecosystem Science and Management— BSA Hons (Saskatchewan) PhD (California, Berkeley)

- Fredj, Karima, Associate Professor, Economics—BA (Tunisia) MSc (Montreal) PhD (McGill)
- Freeman, Shannon, Assistant Professor, Nursing, Adjunct Professor, Health Sciences —BA Hons (McMaster) MSc (Tohoku University Graduate School of Medicine) PhD (Waterloo)
- Ganter, Nikolaus, Adjunct Professor, Environmental Science- MSc (Innsbruck) PhD (Guelph)
- Gaudreau, Kyrke, Adjunct Professor, Ecosystem Science and Management – BEng (McGill) MES PhD (Guelph)
- Ge, Xin, Associate Professor, Business—BA MA (Nanjing) PhD (Alberta)
- Geertsema, Marten, Adjunct Professor, Ecosystem Science and Management—BSc MSc (Alberta) PhD (Utrecht)
- Gehloff, Maik, Senior Lab Instructor, Integrated Wood Design —MASc (British Columbia)
- George, Anne, Adjunct Professor, Health Sciences-BA (Acadia) MLS (British Columbia) PhD (British Columbia)
- Gerwing, Travis, Adjunct Professor, Ecosystem Science and Managements – BSc MSc (Northern British Columbia) PhD (New Brunswick)
- Gibson, Erin, Adjunct Professor, Anthropology -
- Gillingham, Michael, Professor, Ecosystem Science and Management—BSc (McGill) PhD (British Columbia)
- Gingerich, Andrea, Assistant Professor, Northern Medical Program -BSc (Western Ontario) ND (Canadian College of Naturopathic Medicine) MMEd (Dundee) PhD (Maastricht)
- Gorrell, Andrea, Associate Professor, Chemistry—BSc Hons (Texas A & M) PhD (Iowa State)
- Graham, Candida, Adjunct Professor, Health Sciences—MBChB (Leicester University Medical School) MA (London) MMedSci (Birmingham)
- Graham, Rosemary, Adjunct Professor, Nursing—BScN (McMaster) MSN (Athabasca)
- Grainger, Susan, Adjunct Professor, Ecosystem Science and Management—BHMED (British Columbia) BSc (Oregon)
- Graveline, Fyre Jean, Professor, First Nations Studies—BSW (Calgary) MSW (Manitoba) PhD (Dalhousie)
- Gray, Sarah, Associate Professor and Canada Research Chair,
 Integrative Physiology of Diabetes, Northern Medical Program—
 BSc PhD (Victoria)
- Green, Scott, Associate Professor, Ecosystem Science and Management—AAS (New York) BA (Moody, Chicago) PhD (Wisconsin)
- Greenwood, Margo, Professor, Education, First Nations Studies, Adjunct Professor, Northern Medical Program and Academic Leader NCCAH—BEd (Alberta) MA (Victoria) PhD (British Columbia)
- Gregory, Monica, Adjunct Professor, Nursing—BScN (Alberta) BSc MScN (British Columbia)

- Groulx, Mark, Assistant Professor, Environmental Planning—BSc Hons (Lakehead) MA PhD (Waterloo)
- Grunsky, Eric, Adjunct Professor, Geography—BSc MSc (Toronto) PhD (Ottawa)
- Guest, Kristen, Associate Professor, English—BA MA (Western) PhD (Toronto)
- Gunn, Kelly, Adjunct Professor, Nursing BSc (Victoria) MBA (Northern British Columbia)
- Haeussler, Sybille, Adjunct Professor, Ecosystem Science and Management-BSF Hons (British Columbia), MSc (Oregon State), PhD Hons (Quebec)
- Hagiwara, Ami, Lecturer, Global and International Studies—BA (Nihon), Teaching Certificate (Nihon) MEd (Northern British Columbia)
- Halseth, Greg, Professor, Geography and Canada Research Chair, Rural and Small Town Studies —BA (British Columbia) MA PhD (Queen's)
- Hanlon, Neil, Professor, Geography —BA (Ryerson) MA PhD (Queen's)
- Haque, Waqar, Professor, Computer Science and Business—BSc Hons (Pakistan) MSc (Alberta) MSc PhD (Iowa State)
- Harder, Henry, Professor, Health Sciences, Psychology—BEd MA EdD (British Columbia)
- Hardy, Cindy, Professor, Psychology—BA Hons (British Columbia) MA PhD (Concordia) R. Psych
- Harris, Luke, Associate Professor, Health Sciences and Adjunct Professor, Northern Medical Program—BSc Hons (Acadia) PhD (Alberta)
- Harrison, Edward, Assistant Professor, Education—BEd MEd (British Columbia) PhD (Alberta)
- Hartley, Ian, Professor, Ecosystem Science and Management, Physics—BSc MScF (New Brunswick) PhD (British Columbia)
- Hay, William, Lecturer, Education—BA BEd (St. Thomas) MEd (New Brunswick)
- Healy, Theresa, Adjunct Professor, Environmental Planning—BA MA (Saskatchewan) PhD (SFU)
- Heard, Doug, Adjunct Professor, Ecosystem Science and Management—BSc (Waterloo) MSc (British Columbia)
- Helle, Steve, Associate Professor, Environmental Engineering—BEng MEng (McGill) PhD (British Columbia)
- Hemingway, Dawn, Associate Professor, Social Work—BA (Simon Fraser) MSc MSW (Northern British Columbia)
- Henderson, Earl, Adjunct Professor, First Nations Studies—BA MA (Northern British Columbia)
- Henry, Philippe, Adjunct Professor, Ecosystem Science and Management—BSc MSc (Lausanne) PhD (British Columbia)
- Hewko, Sarah, Senior Lab Instructor, Health Sciences BSc MA (British Columbia)
- Hirt, Andreas, Adjunct Professor, Computer Science-BSc (Northern British Columbia) MSc (Calgary) PhD (Calgary)

- Hoffman, Ross, Associate Professor, First Nations Studies—BA (Hons) (Trent) BEd (Toronto) MEd (Victoria) PhD (Trent)
- Hofsink, Clarence, Senior Lab Instructor, Centre for Teaching, Learning and Technology BA MA (Northern British Columbia)
- Holler, Jacqueline, Associate Professor, History, Women's Studies—BA MA (Simon Fraser) PhD (Emory)
- Holyk, Travis, Adjunct Professor, First Nations Studies—BA (Okanagan) MA (Northern British Columbia)
- Horne, Dee, Professor, English—BA (McGill) MA PhD (Toronto)
- Horning, Darwin, Lecturer, Environmental Planning—BSc (DeVry) MNRES (Northern British Columbia)
- Howard, Julie, Senior Lab Instructor, Psychology—BSc (Alberta) MSc (Northern British Columbia)
- Huber, Dezene, Professor, Ecosystem Science and Management —
 BSc (Calgary) PhD (Simon Fraser)
- Hussein, Ahmed, Professor Emeritus, Physics—BSc (Alexandria) MSc PhD (Alberta)
- Hutchings, Kevin, Professor, English, and Canada Research Chair in Literature, Culture, and Environmental Studies—BA (Guelph) MA (McMaster) PhD (Hamilton)
- Huynh, Ngoc, Senior Lab Instructor, Nursing BA (Simon Fraser)
- Hyndman, Jennifer, Professor, Mathematics and Statistics—BMath (Waterloo) MA PhD (Colorado)
- Iqbal, Asif, Assistant Professor, Integrated Wood Engineering and Design—BSc MSc (Bangladesh) PhD (Canterbury)
- Irving, Lauren, Adjunct Professor, Nursing —BScN (Northern British Columbia) MNP (British Columbia)
- Jackson, Christine, Senior Lab Instructor, Geography—BSc (British Columbia) BEd (Western)
- Jackson, Peter, Professor, Environmental Engineering, Environmental Science, and Environmental Studies—BSc Hons PhD (British Columbia)
- Jago, Charles, Professor Emeritus, History BA Hons (Western Ontario) PhD (Cambridge)
- Jensen, Erik, Professor, Physics—BSc Hons (Victoria) PhD (Cambridge)
- Johnson, Chris, Professor, Ecosystem Science and Management—BSc Hons (Victoria) MSc PhD (Northern British Columbia)
- Johnston, Suzanne, Adjunct Professor, Nursing—MSN (New Brunswick) PhD (Arizona) RN
- Jokinen, Nancy, Associate Professor, Social Work MSW (Lakehead) PhD (Calgary)
- Jones, George, Senior Lab Instructor, Physics BSc PhD (Windsor)
- Jull, Michael, Adjunct Professor, Ecosystem Science and Management—BSF MSc (British Columbia)
- Kaminska, Malgorzata, Assistant Professor, Northern Medical Program
 BSc Hons (Ottawa) MD (Toronto) MSC (London UK)
- Kaufman, Claire, Senior Lab Instructor, Geography—BA (Simon Fraser) MSc (Queen's)

- Kaweesi, Constance, Lecturer, Education—BA (Brandon) BSW (Victoria) MSW (Northern British Columbia)
- Kazemian, Hossein, Senior Lab Instructor, Northern Analytical Laboratory Services and Adjunct Professor, Chemistry —BSc MSc PhD (State University of Isfahan)
- Keeler, Gwen, Senior Lab Instructor, Nursing-BA (Victoria) BSc (British Columbia Institute of Technology)
- Keen, Kevin, Professor, Mathematics and Statistics—BSc Hons (Simon Fraser) MSc (Montreal) PhD (Toronto)
- Keener, Lee, Professor Emeritus—BA (Amherst College) MSc (Rensselaer Polytechnic) MSc (Oregon) PhD (Rensselaer Polytechnic)
- Kitchenham, Andrew, Professor, Education—BEd MEd (Victoria) PhD (James Cook) PhD (Wyoming)
- Klassen-Ross, Tammy, Instructor, Health Sciences, Adjunct Professor, Psychology —BA (British Columbia) MSc PhD (Northern British Columbia)
- Klepetar, Amy, Assistant Professor, Nursing—BA (Dartmouth) BScN (John Hopkins) MSc (Utah) RN
- Koehn, Deborah, Lecturer, Education BEd (Briitsh Columbia) MEd (Vicoria)
- Korkmaz, Elie, Professor, Physics—BSc (Lebanese) MSc PhD (Indiana)
- Kotowich-Laval, Marian, Senior Lab Instructor, Education—MA (Royal Roads)
- Kranz, Allan, Senior Lab Instructor, Computer Science—BSc MSc (Northern British Columbia)
- Krehbiel, Richard, Adjunct Professor, Environmental Planning Juris Doctor (Saskatchewan)
- Kumar, Pranesh, Professor, Mathematics and Statistics—MSc PhD (Indian Agricultural Research Institute)
- Kunkel, Titilope, Senior Lab Instructor, First Nations Studies —BSc (Lagos) MBA (Thames Valley) PhD NRES (Northern British Columbia)
- Kuo, Kuo-Hsing, Associate Professor, Northern Medical Program and Adjunct Professor, Health Sciences—MD (National Taiwan) MSc (National Yang-Ming) PhD (British Columbia)
- Lacharite, Jason, Assistant Professor, Political Science—BA (Victoria) MA (Yonsei) PhD (Monash)
- Lapadat, Connie-Marie, Adjunct Professor, Nursing BScN MSN (British Columbia) FNP
- Larisch, Belinda, Adjunct Professor, Environmental Engineering—BEng MEng (McGill) PhD (British Columbia)
- Lautensach, Alexander, Associate Professor, Education—BEd (Toronto) MSc (Guelph) MScT (McMaster) PhD (Otago)
- Lavallee, Lorraine, Assistant Professor, Psychology—BA MA PhD (British Columbia)
- Lavoie, Josée, Adjunct Professor, Health Sciences—BSc MA (McGill) PhD (London)

- Lazenby, Richard, Professor, Anthropology and Adjunct Professor, Northern Medical Program —BA/MA (Simon Fraser) PhD (McMaster)
- Lee, Chow H., Professor, Chemistry—BSc Hons (New South Wales, Australia) PhD (Flinders, Australia)
- Lettinga, Virgina, Adjunct Professor, History BA (Calvin College) MA (Northwestern)
- Lewis, Kathy, Professor, Ecosystem Science and Management—BSF (British Columbia) MS (Virginia Polytech and State) PhD (Oregon State)
- Li, Han, Professor, Health Sciences, Psychology—BEd Hons (Hua-Zhong NU) MPH (North Carolina) MA PhD (Victoria)
- Li, Jianbing, Professor, Environmental Engineering—BASc MaSc (Wuhan) PhD (Regina)
- Lindgren, B. Staffan, Professor Emeritus, Ecosystem Science and Management —MPM PhD (Simon Fraser)
- Loukacheva, Natalia, Associate Professor, Political Science and Canada Research Chair, Aboriginal Governance and Law—LLB LLM PhD (Urals State Law Academy) SJD (Toronto)
- MacLeod, Martha, Professor, Health Sciences, Nursing—BA MA (Toronto) PhD (Edinburgh) RN
- MacMillan, Peter, Associate Professor, Education, Health Sciences— BSc Ed. Cert. MA (British Columbia), PhD (Alberta)
- MacPhail, Fiona, Professor, Economics—BA Hons MA (Guelph) MA (Sussex) PhD (Dalhousie)
- Madak, Paul, Adjunct Professor, Psychology—BA (St. Bonaventure) MA PhD (Manitoba)
- Maher, Patrick, Adjunct Professor, Northern Studies, Outdoor Recreation and Tourism Management—BA Honours (Lakehead) PhD (Lincoln)
- Mandy, Margot, Professor, Chemistry—BSc Hons (Acadia) MSc PhD (Toronto)
- Margolin, Indrani, Associate Professor, Social Work—BA Hons (Guelph) MSW (Wilfrid Laurier) PhD (Toronto)
- Margulis, Matias, Adjunct Professor, Global and International Studies-BA MA (Toronto) PhD (McMaster)
- Markey, Sean, Adjunct Professor, Geography-BA (British Columbia) MA (York) PhD (Simon Fraser)
- Martel, Gordon, Professor Emeritus, History—BA Hons (Simon Fraser)
 MA (Tufts and Harvard) PhD (Toronto)
- Martins, Eduardo, Assistant Professor, Ecosystem Science and Management (Biology) - BSc MSc PhD (State University of Campinas, Brazil)
- Massicotte, Hugues, Professor, Ecosystem Science and Management—BScA (Laval) MSc PhD (Guelph)
- Matheson, Heath, Assistant Professor, Psychology BA Hons (Winnipeg) MSc PhD (Dalhousie)
- Mattfeld, Monica, Assistant Professor, English, History BA (Cariboo) MA (British Columbia) PhD (Kent)

- Matthews, Quinn, Adjunct Professor, Physics—BSc MSc PhD (Victoria)
- Maurice, Sean, Senior Lab Instructor, Northern Medical Program, BKin (Calgary) PhD (British Columbia)
- McDonald, VernaLynn, Associate Professor, Education—BA (Alberta) MEd (British Columbia) MA EdD (US International, San Diego)
- McGill, William, Professor, Ecosystem Science and Management—BSA Hons MSc (Manitoba) PhD (Saskatchewan)
- Meletis, Zoë, Associate Professor, Geography—BA (McGill) MScPI (Toronto) PhD (Duke)
- Menounos, Brian, Professor, Geography and Canada Research Chair Glacier Change, Geography—BA MA (Colorado) PhD (British Columbia)
- Messinger, Paul, Adjunct Professor, Business Administration BA (Carleton) MBA (Harvard) MA PhD (California, Berkeley)
- Michalos, Alex, Professor Emeritus, Political Science—BA (Western Reserve) MA BD PhD (Chicago)
- Migabo, Saphida, Senior Lab Instructor, Ecosystem Science and Management—BSc (Kenya) MSc (Alberta) PhD (Cornell)
- Milburn, Daniel, Adjunct Professor, Environmental Planning BSc (Northern British Columbia) MCIP RPP
- Mills, Antonia, Professor Emerita, First Nations—BA Hons PhD (Harvard)
- Mitchell, Sheona, Adjunct Professor, Health Sciences BSc MD (Calgary) MPH (Johh Hopkins School of Public Health) FRCSC (British Columbia)
- Moghimehfar, Farhad, Assistant Professor, Outdoor Recreation and Tourism Management - BSc (Azad, Iran) MSc (Allameh Tabataba'l, Iran) PhD (Alberta)
- Monu, Kafui, Assistant Professor, Business—BComm Hons (Manitoba) MSc PhD (British Columbia)
- Morris, Jason, Lecturer, Political Science BA (Simon Fraser) MA (Northern British Columbia)
- Morris, Marleen, Adjunct Professor, Geography—BA (British Columbia) MSc (HEC Paris/University of Oxford)
- Morrison, William, Professor Emeritus, History—BA Hons MA (McMaster) PhD (Western)
- Mullins, Philip, Associate Professor, Outdoor Recreation and Tourism Management—BA (Lakehead) MA PhD (Alberta)
- Murphy, Michael, Professor, Political Science, and Canada Research Chair, Comparative Indigenous – State Relations—BA MA (Western Ontario) PhD (McGill)
- Murray, Brent, Associate Professor, Ecosystem Science and Management—BSc MSc (Alberta) PhD (McMaster)
- Nawaz, Shamaila, Assistant Professor, Economics—BA (Punjab)

 MA (International Islamic University) MS PhD (Universite de la Mediterranee Aix-Marseille)
- Nixon, Gregory, Associate Professor, Education—BA (Alberta) MEd (Lethbridge) PhD (Louisiana State)

- Nolin, Catherine, Associate Professor, Geography—BA (Calgary) MA PhD (Queen's)
- Nyce, Deanna, Adjunct Professor, First Nations Studies—BEd MEd (British Columbia)
- O'Neill, Linda, Associate Professor, Education—BA MEd (Victoria) PhD (Victoria)
- Opio, Chris, Professor, Ecosystem Science and Management—BScF (New Brunswick) MEDes (Calgary) PhD (Alberta)
- Otter, Ken, Professor, Ecosystem Science and Management—BSc (British Columbia) MSc PhD (Queen's)
- Owen, William, Associate Professor, Psychology—BSc Hons (Augustana University College) MA PhD (Saskatchewan)
- Owens, Philip, Professor, Environmental Science, and Forest Renewal BC Endowed Chair, Landscape Ecology—BSc (Coventry) MSc (British Columbia) PhD (Exeter)
- Parker, Katherine, Professor, Ecosystem Science and Management, and Ian McTaggart Cowan Muskwa Kechika Research Professor—BA MA PhD (Washington State)
- Parkes, Margot, Associate Professor, Health Sciences, and Canada Research Chair, Community Health/Environmental Health/Rural, Remote, Aboriginal and Northern Health—MB ChB (Otago) MA (Brussel) PhD (Otago)
- Parshotam, Umesh, Senior Lab Instructor, Chemistry and Adjunct Professor, Northern Medical Program—BSc (Texas) PhD (Western)
- Pawlowska-Mainville, Agnieszka, Assistant Professor, First Nations— BA (McGill) MA PhD (Manitoba)
- Payne, Geoffrey W., Professor, Northern Medical Program and Adjunct Professor, Health Sciences—BSc MSc PhD (Memorial)
- Pearson, Tammy, Assistant Professor, Social Work—BA (Cape Breton) BSW (Victoria) MSW (British Columbia) PhD (Northern British Columbia)
- Pelletier, Chelsea, Assistant Professor, Health Sciences—BKin Hons (Acadia) MSc PhD (McMaster)
- Perrin, Rose, Adjunct Professor, Nursing LPN RN (College of New Calendonia) BSc (Northern British Columbia)
- Peters, Heather, Associate Professor, Social Work—BA (Saskatchewan) BSW (British Columbia) MSW (Carleton) PhD (British Columbia)
- Petticrew, Ellen, Professor and Forest Renwal BC Chair in Landscape Ecology, Geography—BSc Hons (Queen's) MSc (British Columbia) PhD (McGill)
- Picketts, Ian, Adjunct Professor, Ecosystem Science and Management—BA (Queen's) MNRES PhD (Northern British Columbia)
- Pierce, Joanna, Associate Professor, Social Work—BSW MSW (Northern British Columbia) PhD (British Columbia)
- Plourde, Guy, Professor, Chemistry—BSc (Quebec) MSc PhD (Manitoba)

- Poirier, Lisa, Assistant Professor, Ecosystem Science and Management—BSc (Guelph) MPM PhD (SFU)
- Polajnar, Desanka, Adjunct Professor, Computer Sciences Dipl Ing (Belgrade) MSc (Southern California)
- Polajnar, Jernej, Associate Professor, Computer Science—BSc MSc (Belgrade) PhD (Southern California)
- Potter, Grant, Senior Lab Instructor, Centre for Teaching and Learning—BA (Acadia) BEd MEd (British Columbia)
- Prkachin, Glenda, Adjunct Professor, Psychology BA Hons MA (Carleton) PhD (British Columbia)
- Prkachin, Kenneth, Professor Emeritus, Psychology, Adjunct Professor, Health Sciences —BA MA PhD (British Columbia) R.Psych
- Pypker, Thomas, Adjunct Professor, Ecosystem Science and Management—BSc (McMaster) MSc (British Columbia) PhD (Oregon State)
- Rader, Stephen, Professor, Chemistry—BA (Swarthmore College) PhD (California-San Francisco)
- Rahemtulla, Farid, Assistant Professor, Anthropology—BA (Alberta) MA (Toronto) MA PhD (Simon Fraser)
- Rea, Roy, Senior Lab Instructor, Ecosystem Science and Management—BS (California State) MSc (Northern British Columbia) PhD (Norwegian Life Sciences)
- Regehr, Colleen, Adjunct Professor, Nursing—BScN (British Columbia) MScN (Athabasca)
- Reid, Matthew, Professor, Physics—BSc (Northern British Columbia) MSc PhD (Alberta)
- Reimer, Kerry, Professor, Chemistry—BSc (British Columbia) MSc PhD (Simon Fraser)
- Rex, John, Adjunct Professor, Geography—BSc (Memorial) MSc PhD (Northern British Columbia)
- Reynolds, Tanis, Assistant Professor, First Nations Studies BA MA (Northern British Columbia)
- Roberts, Jeanne, Adjunct Professor, Ecosystem Science and Management – BSc MSc (Northern British Columbia) PhD (British Columbia)
- Robinson, Rheanna, Assistant Professor, First Nations Studies—BA MA (Northern British Columbia) PhD (British Columbia)
- Rocha, Elizabete, Adjunct Professor, Psychology BA (British Columbia) MSc (Northern British Columbia) PhD (Saskatchewan)
- Rojas, Shandra, Adjunct Professor, Nursing—BScN (Northern British Columbia) MScN (Victoria)
- Romanets, Maryna, Associate Professor, English, Women's Studies— MA (Chernivtsi) PhD (Ukranian National Academy of Arts and Sciences), PhD (Saskatchewan)
- Russell, Grahame, Adjunct Professor, Geography—BA (Guelph) LLB (Ottawa)
- Rutherford, Michael, Professor, Environmental Science—BSc Hons (British Columbia) PhD (Alberta)

- Ryan, Daniel, Associate Professor, Mathematics and Statistics BSc MSc PhD (Guelph)
- Safaei Boroojeny, Jalil, Professor, Economics—BA MA (Shiraz, Iran) PhD (Manitoba)
- Sanborn, Paul, Associate Professor, Ecosystem Science and Management—BA (Western) MSc (Alberta) PhD (British Columbia)
- Sanchez-Fortun Stoker, Jamie, Adjunct Professor, Physics MPhys PhD (Newcastle)
- Sanders, Caroline, Associate Professor, Nursing—BSc Hons (Manchester) MSc PhD (Fordham)
- Sangha, Dave, Assistant Professor, Social Work—BA BSW MSW (British Columbia)
- Schiller, Catharine, Assistant Professor, Nursing-BScN (Ryerson) MSc (Toronto) Juris Doctor (Western Ontario)
- Schmidt, Glen, Professor, BSW Coordinator Social Work—BA BSW (Manitoba) MSW (British Columbia) PhD (Memorial)
- Schorcht, Blanca, Associate Professor, English—BA MA PhD (British Columbia)
- Schuster, Richard, Adjunct Professor, Ecosystem Science and Management – BSc MSc (U of Graz) PhD (British Columbia)
- Scott, Charles, Lecturer, Business—BA (British Columbia) MA (Waterloo)
- Seaton, Cherisse, Adjunct Professor, Psychology BSc Hons MSc PhD (Northern British Columbia)
- Seidel, Andrew, Professor, Planning BArch (Pratt) MCP (Harvard) PhD (Michigan)
- Sharp, Karyn, Adjunct Professor, Anthropology—BA Hons (Radford) MA (Utah)
- Shegelski, Mark, Professor, Physics—BSc Hons (Calgary) MSc PhD (British Columbia)
- Sherry, John, Assistant Professor, Education—BA (San Diego) MS PhD (Fordham)
- Shrimpton, Mark, Professor, Ecosystem Science and Management— BSc (Victoria) MSc PhD (British Columbia)
- Shubair, Mamdouh, Assistant Professor, Health Sciences—BSc MSc PhD (Waterloo)
- Shultis, John, Associate Professor, Outdoor Recreation and Tourism Management—BSc Hons (Trent) PhD (Otago)
- Shuster, Richard, Adjunct Professor, Ecosystem Science and Management – BSc MSc (U of Graz) PhD (British Columbia)
- Siakaluk, Paul, Professor, Psychology—BA Hons (Calgary) MSc (Calgary) PhD (Alberta)
- Sidhu, Narinda, Adjunct Professor, Physics—BSc MSc PhD (Punjabi University) MS (Oklahoma City)

- Sinclair, Findlay, Adjunct Professor, Natural Resources and Environmental Studies (Environmental Planning) BA (Simon Fraser)
- Smith, Angèle, Associate Professor, Anthropology, Adjunct Professor, Health Sciences —BA (Toronto) MA (McMaster) PhD (Massachusetts)
- Smith, Heather, Professor, Global and International Studies—BA (Alberta) MA PhD (Queen's)
- Smith, Kevin, Associate Professor, Health Sciences BSc (First Class Hons) (The Napier Polytechnic of Edinburgh) PhD (MRC Clinical Research Centre, Harrow)
- Sommerfeld, Anne, Senior Lab Instructor, Health Sciences—HBScN (Lakehead) MSc (Northern British Columbia) RN
- Sra, Jaspreet, Lecturer, Business-BComm (Gunu Nanak Dev) BEd (Jamma) MComm (Punjabi)
- Stadnyk, Tricia, Adjunct Professor, Environmental Science BASc PhD (Waterloo)
- Stark, Martha, Adjunct Professor, Biochemistry, Chemistry—BA (Swarthmore) PhD (California)
- Stewart, Katherine, Adjunct Professor, Ecosystem Science and Management—BSc MSc (Lakehead) PhD (Northern British Columbia)
- Sui, Jueyi, Professor, Environmental Engineering—BEng MEng (Hefei) Drlny (Germany)
- Summerville, Tracy, Associate Professor, Political Science—BA Hons MA (Western) PhD (Laval)
- Swainger, Jonathan, Professor, History—BA (Lethbridge) MA (Calgary) PhD (Western)
- Syme, Anne, Adjunct Professor, Nursing BSc MSc (British Columbia) PhD (Victoria)
- Tang, Youmin, Professor, Environmental Science—BSc MSc (Nanjing) PhD (British Columbia)
- Tannert, Thomas, Associate Professor, Integrated Wood Engineering and Design—Dipl. Ing (Bauhas) MSc (BioBio) PhD (British Columbia)
- Tarlier, Denise, Adjunct Professor, Nursing—BScN MScN PhD (British Columbia)
- Thompson, Judith, Assistant Professor, First Nations—BSc (Simon Fraser) MSc PhD (Victoria)
- Thring, Ron, Professor, Environmental Engineering—BSc (Botswana and Swaziland) MASc (Bradford UK) MSc (Saskatchewan) PhD (Sherbrooke)
- Transken, Si Chava, Associate Professor, Social Work, Women's Studies—BA BSW (Laurentian) MA PhD (Toronto)
- Ulrich, Cathy, Adjunct Professor, Nursing—BScN (Alberta) MSc (Northern British Columbia)

- Usman, Lantana, Associate Professor, Education—Ed. Cert. BEd MBA MEd (Ahmadu Bello) PhD (Alberta)
- Van Pelt, Linda, Assistant Professor, Nursing—Nursing Diploma (BCIT) BSN (Open University) BHS (TRU) MScN-FNP (Northern British Columbia)
- Venter, Oscar, Associate Professor, Ecosystem and Science Management, and Forest Renewal BC Endowed Chair in Growth and Yield and Forest Valuations —BSc Hons (Concordia) PhD (Queensland)
- Wagner, Shannon, Professor, Health Sciences —BA MSc PhD (Northern British Columbia)
- Walters, Samuel, Professor, Mathematics and Statistics—MA PhD (Dalhousie)
- Wang, Baotai, Professor, Economics—BA MA (People's University of China) MA (Windsor) PhD (Dalhousie)
- Wang, You Qin (Jean), Senior Lab Instructor—HPCP BSc Hons (Ocean University) MSc (Manitoba) PhD (Manitoba)
- Ward, Arlene, Adjunct Professor, Disability Management—BSc (British Columbia) MSc (Calgary)
- Weeks, Daniel, Professor, Psychology—BA (Windsor) MSc (McMaster) PhD (Auburn)
- Wessell Lightfoot, Dana, Associate Professor, History—BA MA PhD (Toronto)
- Whalen, Catherine, Assistant Professor, Education—BEd (New Brunswick) MA (Royal Roads) EdD (Calgary)
- Wheate, Roger, Associate Professor, Geography/GIS Coordinator—BSc Hons (St Andrews) MA (Queen's) PhD (St Andrews)
- Whitcombe, Todd, Associate Professor, Chemistry—BSc Hons PhD (Victoria)
- Wilkening, Ken, Associate Professor, Global and International Studies—BA MS PhD (U Wisconsin Madison)
- Wilson, Erin, Assistant Professor, Nursing BSN (Manitoba) MScN (British Columbia) PhD (Northern British Columbia)
- Wilson, Gary, Professor, Political Science—BA (Carleton) MA PhD (Toronto)
- Wimmers, Guido, Associate Professor, Integrated Wood Design —PhD (Innsbruck)
- Wimmers-Klick, Julia, Senior Lab Instructor, Northern Medical Program BSc (Vienna) MD (Innsbruck)
- Winwood, Paul John, Associate Professor, Northern Medical Program—BSc (London) MB BS (London)
- Wood, Lisa, Assistant Professor, Ecosystem Science and Management—BSc MSc (Northern British Columbia) PhD (Victoria)
- Wright, Pamela, Associate Professor, Outdoor Recreation and Tourism Management—BSc (Lakehead) MSc (Ohio State) PhD (Ohio State)

- Yin, Jun, Adjunct Professor, Chemistry BS MS (Hohai) PhD (Nevada)
- Young, Andrew, Adjunct Professor, Environmental Planning BA (Simon Fraser) MA (British Columbia)
- Young, Jane, Assistant Professor, Ecosystem Science and Management—BSc (York) MSc (Guelph) PhD (Toronto)
- Young, John, Associate Professor, Political Science—BA Hons (Alberta) MA (Carleton) PhD (Toronto)
- Zimmer, Lela, Associate Professor, Nursing—Dipl Nursing (BCIT) BSN (Northern British Columbia) PhD (Alberta)

Officers of the University

UNBC Board of Governors

Dr. Daniel Weeks President and Vice-Chancellor

Hon. James Moore Chancellor

Ms. Tracey Wolsey Board Chair—Order-in-Council

Appointment (Alumni)

Mr. Sean Simmons Board Vice Chair Order-in-Council

Appointment

Ms. Katherine LaForge Order-in-Council Appointment
Mr. Harry Nyce, Sr. Order-in-Council Appointment

Mr. Tim Carmack Order-in-Council Appointment (Alumni)

Senate

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Dr. Daniel Weeks President and Vice Chancellor,

and Chair of Senate

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Programs

Dr. Blanca Schorcht Dean, College of Arts, Social, and Health

Sciences

Dr. Erik Jensen Acting Dean, College of Science and

Management

vacant Vice Provost Student Recruitment

Dr. Mark Dale Dean, Regional Programs

Ms. Lisa Haslett Interim Director, Business Services and

Continuing Studies

Ms. Heather Empey Acting Co-University Librarian
Mr. James MacDonald Acting Co-University Librarian
Mr. Bert Annear Registrar and Secretary to Senate

(non-voting)

College of Arts, Social and Health Sciences Faculty Members

Dr. Svlvia Barton

Dr. Stan Beeler

Dr. Michel Bouchard

Ms. Ngoc Huynh

Dr. Michael Murphy

Dr. Gregory Nixon

Dr. Rheanna Robinson

Dr. Dana Wessell Lightfoot

Dr. Catherine Whalen

College of Science and Management Faculty Members

Dr. David Casperson

Dr. Reza Chowdhury

Dr. Daniel Erasmus

Ms. Wendy Fellers

Dr. Margot Mandy

Dr. Brian Menounos, Vice Chair of Senate

Mr. Simon Yu Order-in-Council Appointment
Ms. Julie Ziebart Order-in-Council Appointment
Ms. C.E. Lee Ongman Order-in-Council Appointment

Dr. Kathy Lewis Elected Faculty Member
Dr. Karin Beeler Elected Faculty Member

Ms. Amelia Kaiser Elected Graduate Student Member

Ms. Arctica

Cunningham Elected Undergraduate Student Member

Mr. Mark Barnes Elected Staff Member

Dr. Roger Wheate Dr. Todd Whitcombe

vacant - CSAM Faculty Senator vacant - CSAM Faculty Senator vacant - CSAM Faculty Senator

Faculty Members at Large

Dr. Balbinder Deo Dr. Tracy Summerville

Students - Undergraduate

Ms. Lauren Dohler Ms. Marion Erickson Mr. Steven Horianopoulos Mr. Aaron Larsen Ms. Hailey Massingham

Ms. Ana Saenz

Students - Graduate

Ms. Amy Blanding Ms. Kristen Hirsh-Pearson

Mr. Seamus Hogan Ms. Aishat Oguntola

Lay Senators

Ms. Andrea Palmer Ms. Lisa Handfield Mr. Mike Peterson

Mr. Allan Stroet

WWN Representative

Ms. Deanna Nyce

Regional Senators

Mr. Michael Prevost (Northwest Region)

Ms. Laurey-Anne Roodenburg (South-Central Region)

Vacant (Peace River-Liard Region)

Vacant (Aboriginal/First Nations Communities)

University Administrative Officers

Academic Administration

President and Vice Chancellor—Daniel Weeks, BA (Windsor) MSc (McMaster) PhD (Auburn)

Interim Provost and Vice President, Academic—Daniel Ryan, BSc MSc PhD (Guelph)

Interim Vice President, Research and Graduate Programs—Geoffrey Payne, BSc MSc PhD (Memorial)

Vice Provost, Medicine—Paul John Winwood, Northern Medical Program, BSc (London) MB BS (London)

Dean, College of Arts, Social and Health Sciences—Blanca Schorcht, BA Hons (Alberta) MA (Carleton) PhD (Toronto)

Acting Dean, College of Science and Management—Erik Jensen, BSc Hons (Victoria) PhD (Cambridge)

Dean, Regional Programs—Mark Dale, BSc MSc (Toronto) PhD (Dalhousie)

University Registrar and Secretary to Senate—Robert Annear

Business Services and Continuing Studies

Interim Director, Business Services and Continuing Studies— Lisa Haslett, MEd (Northern British Columbia)

Athletics

Director, Athletics and Recreation—Loralyn Murdoch, BPE (Alberta) MEd (Victoria)

Awards and Financial Aid

Coordinator, Awards and Financial Aid-Linda Fehr

Bookstore

Manager, Retail Services—Mardeana Berg

Facilities

Director, Facilities Management—Shelley Rennick, BComm MNRES (Northern British Columbia)

Finance and Business Operations

Vice President, Finance and Business Operations—Robert Knight, BA (Ohio State) MBA (Case Western Reserve)

Associate Vice President, Financial Services—Colleen Smith, BComm Hons (Co-op) (Memorial) CA

Manager, Financial Services and Systems—Leanne Murphy, BBA (Thompson Rivers University) CMA

Manager, Contracts and Supply Chain Management—Mike Shannon

Manager, Treasury Services—William Chew, BA, Lic. Acct. (British Columbia), CIM CMA

Human Resources

Associate Vice President, People, Organizational Design and Risk— Barb Daigle, BComm MBA (Calgary) CHRP

Manager, Human Resources, Labour Relations/ HR Information Systems—Jennifer Keryluik CHRP

Manager, Human Resources, Recruitment and Positive Work Environments—Kerry Roberts BComm CHRP

Coordinator, Faculty Relations—Joan Schneider

Information Technology Services

Chief Information Officer—Gregory Condon, BA BSc (Dalhousie) MBA (Royal Roads)

Manager, Application Services—Kevin Stewart, MBA (Northern British Columbia)

Manager, Infrastructure—Glen Montgomery

Office of Regional Programs

Dean, Regional Programs—Mark Dale, BSc MSc (Toronto) PhD (Dalhousie)

Regional Chair, Northwest— Philip Burton, BSc (Hons) (Saskatchewan) MS (Hawaii) PhD (Illinois)

Regional Chair, Peace River-Liard-vacant

Interim Chair, South Central—Titi Kunkel, BSc (Lagos)
MBA (Thames Valley) MSc PhD (Northern British Columbia)

Office of the Registrar

University Registrar and Secretary to Senate—Robert Annear

Deputy Registrar—Shelley McKenzie, BComm MBA (Northern British Columbia)

Manager, Student Systems—Heidi Lawson, BA (Northern British Columbia)

Office of University Advancement

Vice-President, Advancement and Communications—Tim Tribe, BA (Guelph)

Director, Communications and Marketing—Matt Wood, BMus (Ottawa)

Director, Development/Alumni Relations—Kathie Scouten

Safety and Security

Assistant Director, Safety, Security and Emergency Operations— Sarah Elliott

Student Engagement and Affairs

- Interim Manager, International Education— Bjorn Petersen, BA Hons (Western), BEd (Windsor), MEd (York)
- Interim Manager, Student Affairs— Amelia Kaiser, BA (Briercrest College), MBA in progress (Nothern British Columbia)
- Interim Manager, Student Recruitment Dennis Stark, BComm (Northern British Columbia)
- Manager, Aboriginal Student Engagement —Bev Isaac, BA BEd MA (Northern British Columbia)
- Manager, Wellness Centre—Sarah Hanson, RPN (BCIT) BA (Trinity Western) MScN (Northern British Columbia)
- Coordinator, Academic Success—Chrissy Ingram
- Coordinator, Access Resource Centre— Brenda Christensen, BSc MEd (Northern British Columbia)
- Coordinator, Residence Life- Matthew Weber
- Coordinator, Student Career Centre—
 Maria Trujillo, BComm (Northern British Columbia) Graduate Cert (Royal Roads) (Nothern British Columbia)
- Coordinator, Student Life— Emily Gadzala, BA (Trent) Lisa Scheck, BA (Northern British Columbia)

University Library

- Acting Co-University Librarian—Heather Empey, BA (Augustana) MLIS (Alberta)
- Acting Co-University Librarian—James MacDonald, BA (Lethbridge) MLIS (Alberta)
- Head, Archives and Special Collections—Ramona Rose, BA (Memorial) MMSt (Toronto) MA (British Columbia)
- Archivist, Access and Digital Initiatives—Erica Hernandez-Read, BA MA (British Columbia)
- Archivist and Librarian—Kimberley Stathers, BA (British Columbia)

 MALIS (British Columbia)
- Librarian, Acquisitions, Collections and Information Resources— Heather Empey, BA (Augustana) MLIS (Alberta)
- Librarian, Digital Initiatives—James MacDonald, BA (Lethbridge) MLIS (Alberta)
- Librarian, Data Services—Susie Wilson, BSc (Northern British Columbia) MLIS (Alberta)
- Librarian, Northern Health Sciences—Trina Fyfe, BA (Waterloo) MISt (Toronto)
- Librarian, Research and Learning Services—Kealin McCabe, BA (Wilfred Laurier) MLIS (Western Ontario)

Tuition and Fees

Tuition \$173.78 per credit hour

Post-baccalaureate Diploma \$255.55 per credit hour

Student services fee \$5.00 per credit hour

(to a maximum of \$75.00)

NUGSS Student society fee \$42.19 per semester

(\$24.53 per semester in

regions)

NUGSS Health and Dental Plan \$234.60 per policy year

(full time only, Prince George

students only)

NUGSS Building fee \$39.02 per semester

(Prince George students only)

UPASS \$57.50 per semester (PG only)

Student ID Card fee \$2.00 per semester

Intramural Recreation & Fitness fee

\$57.00 per semester (Prince George students only)

PGPIRG fee \$4.00 per semester (full-time students)

\$2.00 per semester (part-time students)

Athletics Intervarsity & Junior Varsity Program fee

\$52.00 per semester (Prince George students only)

CFUR student radio \$11.15 per semester

(Prince George students only)

WUSC fee \$5.00 per semester

Over the Edge Newspaper

Society

\$11.15 per semester (Fall and Winter only; Prince

George students only)

Audit course part-time students—\$86.89

per credit hour;

full-time students—free

Course Challenge fee \$86.89 per credit hour

(50% of regular tuition fee)

Co-op Education Students

Co-op Work Term \$521.32 per work term

Note: \$75.00 reduction per work term that is self-developed

International Students

Tuition – undergraduate \$608.23 per credit hour;

all other fees are the same as those for Canadian undergraduate students

Medical Insurance \$220.00 per 4-month period

(please refer to "Medical Insurance Fee for International

Students")

Other Fees

Northern Degrees Orientation \$40.00 (one time fee applicable

to all new attendees in fall

semesters)

Winter Orientation \$30.00 (one time fee applicable

to all new attendees in the

winter semester)

Application fee \$35.70 domestic

\$76.50 international to accompany each application for admission (non-refundable)

Document evaluation fee \$40.80 (for out-of-province or

out-of country post secondary documents, non-refundable)

Registration deposit \$100.00 per semester

(non-refundable)

Graduation processing fee \$40.80 fee per application

for all graduating students

(non-refundable)

Student ID Card replacement \$15.00 per lost or damaged

card

Course fees Certain courses carry additional

fees to cover the costs of field trips, lab supplies or readings

International exchange

application fee

(undergraduate and graduate,

\$25.00 per application

non-refundable)

Study abroad application fee \$125.00 US per application

to National Student Exchange Program (undergraduate and graduate, non-refundable) Certified True Copy fee \$30.00

Official Transcript fee \$10.20 per transcript copy

Transcript delivery fee \$20.40

Confirmation of enrolment \$12.00

Letter of permission \$12.00 per application

NSF fee \$15.00 (on returned cheques)

Outstanding accounts are subject to a monthly service charge of 2% on the outstanding principal (26.82% per annum).

Parking Fees

Daily \$0.50 per 1.5 hours

Semester permit \$180.00 plus taxes

Annual permit \$540.00 plus taxes

Carpool permit \$31.50 per month plus taxes

(for details see Parking

Services)

Residence Fees

Application fee \$25.00 (non-refundable)

Housing Damage Deposit \$250.00

Residence network

infrastructure fees \$25.00 per semester

Residence Life Fees \$30.00 per semester

Two bedroom units \$2,662.41 per semester, per

occupant

Four bedroom units \$2,332.54 per semester, per

occupant

Mandatory 7 day Meal Plan \$2,366.00 per semester, per

occupant

Residence parking \$161.68 per semester, plus

taxes

Housing fees include high-speed internet connection.

For further information about the mandatory meal plan, see Food Services at www.unbc.ca/food-services.

Additional Information on Fees

BC Residents 65 Years or Older

BC residents who are 65 years of age or older, and who are eligible for admission, may register for courses and receive a waiver of tuition. Please note that in those areas where there is a limited number of spaces available or when programs/courses are deemed to be cost-recovery, students under this category of registration may not receive priority or be eligible for the waiver. Students are responsible for all fees.

Student Services Fee

The student services fees are collected from full-time and part-time students registered for courses to augment services to students.

NUGSS Health and Dental Plan

All full-time undergraduate students who are registered on the Prince George campus and are members of the Northern Undergraduate Student Society (NUGSS) are automatically enrolled in the NUGSS Health and Dental Plan.

Your student Plan provides you with health and dental coverage for 12 months, from September 1 to August 31 of the following year. If you are already covered by an equivalent extended health and dental plan, you may opt out online during the Change-of-Coverage Period (typically within the first 3 weeks of classes-for exact deadlines visit www.ihaveaplan.ca). Your Plan also gives you the option to enroll your family (spouse and/or dependants) by paying an additional fee. Most members that are not automatically covered, but those who wish to have coverage, are able to enroll themselves for an additional fee. Students starting in January may enroll at a pro-rated rate for 8 months of coverage (January 1 to August 31). For more information, contact www.ihaveaplan.ca or 1-866-358-4431.

PGPIRG Fee

The PGPIRG fee is collected by UNBC on behalf of the Prince George Public Interest Research Group. The mandate of this group is to organize its members around topics of public interest such as social justice and environmental issues. Please contact the group at (250) 960-7474 for further information.

Registration Deposit

The registration deposit is required prior to any registration activity. This deposit will be fully credited to your account at the commencement of the semester. The deposit is non-refundable upon cancellation of registration.

Payment Due Date

All student accounts are payable in full by the first day of the semester and refunds (less the non-refundable registration deposit) will only be available until the end of the add/drop date. After this time the refunds will be discounted as outlined in the fee reduction schedule. A service charge of 2% per month (annualized rate of 26.82%) will be applied to any outstanding balance when the account reaches 30 days past due and every 30 days subsequent until the account is paid in full.

Financial Hold

Students who fail to pay the outstanding balance of their current account will be placed on financial hold. While on financial hold, no subsequent registration activity will be allowed, no official transcripts of the academic record will be issued, and a student can be denied graduation. The financial hold will be removed when the outstanding balance, including all service charges, is paid in full. Account questions can be addressed to accountsreceivable@unbc.ca.

Failure to Notify

Any student failing to provide written notification to the Office of the Registrar of their complete withdrawal from a course or slate of courses will be assessed full tuition fees for those registered courses and receive grades of F on their transcript.

Payments

Payments can be made by cash, debit card, cheque, American Express, MasterCard, Visa, wire transfer, or money order. Please ensure that the correct student number is written on the face of all cheques and money orders submitted to the University. Fees may be paid by the following methods:

- by mail: cheques or money orders should be made payable to the University of Northern British Columbia and must reach UNBC by the due date. Cheques or money orders are requested in Canadian funds drawn on a Canadian bank. The University is not responsible for payments lost in the mail.
- by wire transfer: bank-to-bank wire transfers can be arranged through your financial institution. Wire transfer instructions can be found on our web site at: www.unbc.ca/finance_dept/ accounts_receivable/payment_options.html.
- in person: at the Cashier's Office located on Student Services Street during hours of operation. Tuition payments are also accepted at UNBC's regional offices in Terrace, Fort St. John and Quesnel.
- in payment drop box: located by the Security Office. All payments must be enclosed in an envelope. Do not drop cash in box.
- by American Express, MasterCard, Visa, or Debit Card: will be accepted in person by the Cashier.
- by internet: American Express, Mastercard, Visa credit card and Interac debit online payments will be accepted using the website for students.

Any questions regarding making payments may be directed to the Cashiers Office by telephone at (250) 960-5631 or by fax at (250) 960-5251.

Payment inquiries can be addressed to cashier@unbc.ca. Do not e-mail credit card or banking information.

Refund Policy

Refunds can be applied for at the cashier's counter after the add/drop period. Allow two to three weeks for processing. If there is a credit on a student's account and no refund is requested, the credit will be applied to the next semester.

Fee Reduction Schedule*

September Semester (September 6 to December 15)

September 20, 2017 Last day to add/drop without financial penalty October 26, 2017 Last day to withdraw without academic penalty

50% tuition refund

January Semester (January 3 to April 21)

January 17, 2018 Last day to add/drop without financial penalty February 22, 2018 Last day to withdraw without academic penalty

50% tuition refund

May Semester (May 7 to August 17)

May 22, 2018 Last day to add/drop without financial penalty June 26, 2018 Last day to withdraw without academic penalty

50% tuition refund

Spring Intersession (May 7 to June 22)

May 11, 2018 Last day to add/drop without financial penalty May 25, 2018 Last day to withdraw without academic penalty

50% tuition refund

Summer Intersession (July 4 to August 17)

July 10, 2018 Last day to add/drop without financial penalty July 23, 2018 Last day to withdraw without academic penalty

50% tuition refund

NOTE: Exceptions to the refund may apply, subject to approval by the UNBC Board of Governors.

*For condensed courses, the last day to withdraw (50% tuition refund) is indicated in the course specific documentation.

Medical Insurance Fee for International Students

The University of Northern British Columbia has a compulsory medical insurance policy for international students. International students must provide proof of valid medical coverage for each semester that they register at UNBC. A hold will be placed on a student's file if proof of valid medical coverage is not supplied.

A medical insurance fee of \$220 will be assessed further automatically each semester. If students have valid BC Medical Insurance or comparable private insurance, the fee can be waived. Students without medical insurance will be asked to enroll in a university-sponsored plan which costs \$220 for four months of coverage.

Students must contact the International Exchange and Student Programs to enroll in the private insurance plan or to receive a waiver of the medical insurance fee. Please note that simply paying the \$220.00 fee does not fulfil the policy. The policy requires that international students have valid medical insurance while at UNBC, and that they demonstrate proof of such coverage.

Note: Standards for accounts receivable billing and collection of student accounts receivable are subject to UNBC Policy on Student Accounts. For further information on Student Accounts Receivable, please see the Finance website at www.unbc.ca/finance.

Permission for Undergraduates to Take Graduate Course Work

Students in their final year of a Bachelor's degree program at the University of Northern British Columbia who have a grade point average of at least 3.33 (B+) in the last 30 credit hours of course work attempted may be permitted to register in a maximum of six credit hours of graduate courses on the recommendation of the program concerned and with the consent of the Vice President Research and Graduate Programs or designate. If a student is subsequently admitted to a Graduate Program, graduate courses used for credit toward the undergraduate program cannot be used for credit toward the graduate program.

This policy gives academically strong undergraduate students the opportunity to experience graduate level instruction without commitments being made by either the student or the University about admission into graduate programs, or academic credit being awarded for the courses if a student is subsequently admitted to a graduate program. Please note that preclusions stated in the Graduate Academic Calendar will apply. Students are responsible for being aware of preclusions in the Graduate Academic Calendar for cross-listed undergraduate/graduate courses.

Simultaneous enrolment in a graduate program and an undergraduate program, a diploma program or a certificate program is not permitted.

Research at UNBC

The University of Northern British Columbia prides itself on being a small institution with a large research mandate and presence. Our faculty members have demonstrated themselves to be highly competitive in securing support for their research, and we are very proud of the achievements of the graduate students who have registered and graduated in our very short history. The principal research values of UNBC are: excellence, innovation, social and economic relevance, and interdisciplinarity. The goals of research at UNBC are to contribute to the advancement of knowledge, and to stimulate economic growth and diversification in ways that are sustainable and that have widespread social support. The research of faculty members and their students, both undergraduate and graduate, give expression to these values and goals, and we are gratified at the impact that their work has already had in the international community as well as in the local and regional communities that are the constituency of the University.

Students have opportunities to engage in research which is at the leading edge of the disciplines, which is relevant to the communities of the north and to the environment, and which is very well supported by granting agencies at the national and the provincial levels. The research programs of students and faculty often occur in partnership with community groups, industry, government agencies, and other interested parties. This is particularly true of the disciplines which engage heavily in research on issues that are of direct relevance to the rural and remote communities, their supporting industries and social structures, and the boreal and northern regions. The graduate students who join UNBC have unique opportunities to engage in research with leaders in their disciplines and in research which has a large and positive societal impact.

Admission to Graduate Studies

Please contact the Office of the Registrar for more information on admission to Graduate Programs. Also refer to the UNBC Graduate Calendar or visit the Graduate Programs website online at: www.unbc. ca/graduate-programs.

Admissions

The University of Northern British Columbia is committed to providing the best possible educational experience to its students. While some areas of academic study are available to new students without restriction, to ensure the highest quality learning environment others must be limited in enrolment by the availability of suitable space and instruction. Except for first-entry professional programs, first-year first-entry students are admitted to UNBC by their degree outcome of interest, and must indicate at least their first choice of Degree Group (for example Bachelor of Arts or Bachelor of Science) on their application form. Until such time as students declare a major, they will be assigned either of the two College Deans based upon their declared degree group. Once admitted, if the Major selected would require a transfer between Degree Groups, the approval of the College Dean for the Academic Program including the desired major is required. Transfer from a first-entry professional program to one of the Degree Groups is permitted only by approval of the College Dean for the Academic Program including the desired major.

Transfer students are considered for admission only in the context of a Declaration of Major, and will be admitted, on the basis of space availability and eligibility, by established criteria in the Major of choice.

How to Apply

To apply for admission to UNBC, please submit a completed application form, including all required documentation and fees, to the Office of the Registrar.

The online application is available by internet at www.unbc.ca/apply/.

To receive an application form, contact the Office of the Registrar by mail, by fax at (250) 960-6330 or by phone (250) 960-6300.

Students may also contact the Student Recruitment and Advising Centre (www.unbc.ca/whyunbc) or unbc4u@unbc.ca.

Application Deadlines

Canadian Students

General Undergraduate (see Semester Dates and program regulations for professional programs).

May Semester March 1
September Semester March 1

Please note: While the Canadian Student application deadline for admission is March 1st for September entry, students are encouraged to apply earlier. Applications received after March 1st will be considered on the basis of space availability and eligibility, by established criteria in the Degree Group/Major of choice.

January Semester November 1

International Students

September Semester March 1
January Semester June 1

May Semester*

*Applications are not encouraged for this semester, unless applicants are transferring from a Canadian post-secondary institution.

Please note: Applications received after these dates will be processed on the basis of space availability once on-time applications have been allocated.

Professional and Competitive Entry Programs

(see Program Regulations for Professional Program Admissions)

Fine Arts
Social Work
Environmental Engineering
Health Sciences
Education
Nursing
February 1
March 1
February 1
March 15
March 31

Admission Requirements by Degree Groups

Bachelor of Arts	Bachelor of Fine Arts see program regulations	Bachelor of Commerce	Bachelor of Planning & Bachelor of Science
English 12 or English First Peoples 12**	English 12 or English First Peoples 12**	English 12 or English First Peoples 12**	English 12 or English First Peoples 12**
	Portfolio		
Three Approved Grade 12 Courses*	Three Approved Grade 12 Courses*	Three Approved Grade 12 Courses*	Three Approved Grade 12 Courses*
G. 440 12 0001000		Pre-Calculus 12 recommended for prerequisite purposes	Pre-Calculus 12 recommended for prerequisite purposes
A fifth Grade 12 course***	A fifth Grade 12 course***	A fifth Grade 12 course***	A fifth Grade 12 course***
Minimum admission average 65%	Minimum admission average 67%	Minimum admission average 65%	Minimum admission average 65%

SEE NEXT PAGE FOR ADDITIONAL DEGREE GROUPS

- Approved Grade 12 Courses: Applications of Mathematics, BC First Nations Studies, Biology, Business/Hospitality Management, Calculus, Chemistry, Comparative Civilizations, Economics, English Literature, Français, Français Langue Seconde-Immersion, French, German, Geography, Geology, History, Japanese, Latin, Law, Mandarin, Math Foundations, Middle Earth 12, Physics, Pre-Calculus, Principles of Mathematics, Punjabi, Social Justice, Spanish, Sustainable Resources, Technical and Professional Communications, Writing. Approved Advanced Placement Courses: AP Biology (General), AP Calculus AB or BC, AP Chemistry, AP Computer Science A or AB, AP English, AP Environmental Science, AP European History, AP French, AP German, AP History of Art, AP Human Geography, AP Latin, AP Microeconomics/ Macroeconomics, AP Music Theory, AP Physics B and/or Physics C, AP Psychology, AP Spanish Literature, AP Spanish Language, AP Statistics, AP United States History, AP US Government & Politics, AP World History. Approved International Baccalaureate Courses: IB Biology, IB Business Management, IB Chemistry, IB Computer Science, IB Economics, IB English Language A, IB Environmental Systems, IB French Language A and/or French Language B, IB Geography, IB German, IB Greek, IB History, IB History Asian, IB History European, IB Latin, IB History and Culture of the Islamic World, IB Mathematics, IB Further Mathematics, IB Music, IB Philosophy, IB Physics, IB Psychology, IB Social & Cultural Anthropology, IB Spanish A and/or Spanish B.
- ** Approved AP and IB (all standard level and higher level) courses can be used in place of any approved Grade 12 Canadian high school course.
- *** A fifth Grade 12 Course: Any other of the approved Grade 12 courses, and also any Grade 12 course taught in the secondary school including locally-developed courses (e.g. First Nations Languages), career preparation courses (Construction 12, etc.), or others (Art 12, Band 12, Information Technology 12, Communications 12, CAPP 12, etc.), or any Advanced Placement or International Baccalaureate courses.
- Nursing: UNBC's partner institutions, the College of New Caledonia (CNC) and Northwest Community College (NWCC) are processing admissions to the Northern Collaborative Baccalaureate Nursing Program. If you wish to apply to our Prince George or Quesnel campuses, please apply through CNC: www.cnc.bc.ca; if you wish to apply to our Terrace campus, please apply through NWCC at www.nwcc.bc.ca
- † Students interested in pursuing the BHSc Biomedical Studies Major are strongly encouraged to take Pre-Calculus 12 or Principles of Mathematics 12, and Chemistry 12 before entering the Program.

Admission Average: For all provinces the best grade for each required course will be used (either the course mark or the course mark blended with the provincial exam).

Note: Table excludes entry to upper division (Social Work) or post-baccalaureate (Education) professional programs.

Admission Requirements by Degree Groups

Nursing**** see program regulations	Bachelor of Health Sciences see program regulations	Environmental Engineering see program regulations
English 12 or English First Peoples 12 (67% minimum)**	English 12 or English First Peoples 12** (70% minimum)	English 12 or English First Peoples 12**
Foundations of Mathematics 11 or Pre-calculus 11 or Principles of Mathematics 11 (67% minimum) Chemistry 11 or equivalent (67% minimum)	Pre-calculus 11 or Principles of Mathematics 11 (70% minimum) Chemistry 11 or equivalent (70% minimum)	Principles of Mathematics 12 or Pre-Calculus 12
Biology 12 (73% minimum) within 5 years prior to the semester of admission to the NCBNP	Biology 12 (70% minimum) Two other approved* Grade 12 courses	Two provincially examinable Science 12 courses: Chemistry 12
Two other approved* Grade 12 courses	Biomedical Studies † see program regulations	Physics 12 (recommended)
	Pre-Calculus 12 recommended for prerequisite purposes	Chemistry 11 see program regulations
A fifth Grade 12 course***	A fifth Grade 12 course***	A fifth Grade 12 course***
Minimum admission average 67%	Minimum admission average 70%	Minimum admission average 75%

- * Approved Grade 12 Courses: Applications of Mathematics, BC First Nations Studies, Biology, Calculus, Chemistry, Comparative Civilizations, Economics, English Literature, Français, Français Langue Seconde-Immersion, French, German, Geography, Geology, History, Japanese, Latin, Law, Mandarin, Math Foundations, Middle Earth 12, Physics, Pre-Calculus, Principles of Mathematics, Punjabi, Social Justice, Spanish, Sustainable Resources, Technical and Professional Communications, Writing. Approved Advanced Placement Courses: AP Biology (General), AP Calculus AB or BC, AP Chemistry, AP Computer Science A or AB, AP English, AP Environmental Science, AP European History, AP French, AP German, AP History of Art, AP Human Geography, AP Latin, AP Microeconomics/Macroeconomics, AP Music Theory, AP Physics B and/or Physics C, AP Psychology, AP Spanish Literature, AP Spanish Language, AP Statistics, AP United States History, AP US Government & Politics, AP World History. Approved International Baccalaureate Courses: IB Biology, IB Business Management, IB Chemistry, IB Computer Science, IB Economics, IB English Language A, IB Environmental Systems, IB French Language A and/or French Language B, IB Geography, IB German, IB Greek, IB History, IB History Asian, IB History European, IB Latin, IB History and Culture of the Islamic World, IB Mathematics, IB Further Mathematics, IB Music, IB Philosophy, IB Physics, IB Psychology, IB Social & Cultural Anthropology, IB Spanish A and/or Spanish B.
- ** Approved AP and IB (all standard level and higher level) courses can be used in place of any approved Grade 12 Canadian high school course.
- *** A fifth Grade 12 Course: Any other of the approved Grade 12 courses, and also any Grade 12 course taught in the secondary school including locally-developed courses (e.g. First Nations Languages), career preparation courses (Construction 12, etc.), or others (Art 12, Band 12, Information Technology 12, Communications 12, CAPP 12, etc.), or any Advanced Placement or International Baccalaureate courses.
- Nursing: UNBC's partner institutions, the College of New Caledonia (CNC) and Northwest Community College (NWCC) are processing admissions to the Northern Collaborative Baccalaureate Nursing Program. If you wish to apply to our Prince George or Quesnel campuses, please apply through CNC: www.cnc.bc.ca; if you wish to apply to our Terrace campus, please apply through NWCC at www.nwcc.bc.ca
- † Students interested in pursuing the BHSc Biomedical Studies Major are strongly encouraged to take Pre-Calculus 12 or Principles of Mathematics 12, and Chemistry 12 before entering the Program.
 - Admission Average: For all provinces the best grade for each required course will be used (either the course mark or the course mark blended with the provincial exam).
 - Note: Table excludes entry to upper division (Social Work) or post-baccalaureate (Education) professional programs.

Admission Requirements for Applicants from BC and Yukon High Schools

Successful completion of an approved grade 12 program leading to graduation with an acceptable BC/Yukon high school average calculated on the basis of the five best grade 12 courses from the listings in the Admission Requirements by Degree Group Table above or First Entry Professional Program of your choice (see also "Special Entry").

Special Early Provisional Admission

Students registered in grade 12 at a BC high school who are planning to attend UNBC in the September immediately following graduation are encouraged to apply for Special Early Admission no later than the end of February. A decision will be made based on the student's self declared Grade 11 and 12 grades and, no later than the end of February, a provisional offer of admission will normally be made to all applicants who meet or exceed the minimum grade point average and course requirements. The conditions associated with special early provisional admission are that the applicant's academic average remains at or above the minimum, that all required courses are successfully completed, and that graduation requirements are satisfied. These conditions will be checked in August upon receipt of the final marks from the Ministry of Education.

The University reserves the right to withdraw a provisional offer of admission if the above conditions are not met.

Early Provisional Admission from a BC High School

Students registered in grade 12 at a BC high school who are planning to attend UNBC in the September immediately following graduation, are advised to apply for Early Admission (currently before the end of February). All applicants who do this and notify their school counsellor of their application to UNBC will automatically have their interim grade 12 marks submitted to UNBC by the Ministry of Education. A provisional decision will be made based on these grades and a provisional offer of admission will be made to applicants who are considered exceptional. The conditions associated with early provisional admission are that the applicant's academic average remain at or above the minimum, that all required courses are successfully completed and that graduation requirements are satisfied. These conditions will be checked in August upon receipt of the final marks from the Ministry of Education. Where a student does not satisfy the three conditions, the University reserves the right to withdraw the provisional offer of admission.

BC High School Transcripts

Applicants who are required to submit official BC High School transcripts should contact the BC Ministry of Education:

Ministry of Education – Transcripts PO Box 9886 Stn Prov Govt Victoria, BC V8W 9T6 General Information Phone: (250) 356-7270 Or visit the Ministry of Education website: www.gov.bc.ca/bced

Headstart Entry from a BC High School

Outstanding students who have completed BC grade 11, can demonstrate an exceptional academic record, and can provide evidence of above average maturity may apply for admission to UNBC. In many cases this may mean concurrently registering in one or two first-year introductory UNBC courses while completing grade 12. However, in exceptional cases, these applicants may be admitted to study as a full-time first-year student at UNBC.

To apply for Headstart entry, the application must be accompanied by an autobiographical letter indicating the applicant's areas of interest and reasons for wishing to attend UNBC, along with letters of recommendation from the high school principal and at least one teacher or counsellor from the school, and a complete high school transcript. Questions and correspondence should be directed to the Office of the Registrar.

Dual High School/University Credit

High school students in grade 12 who are in good standing, and have the recommendation from their principal or guidance counsellor, may enroll with UNBC in order to earn credits that can be used jointly as elective credits towards high school graduation and as first year university credit towards a degree. This program is designed to allow high school students the opportunity to gain first-hand experience in a university-level course while at the same time earning credits towards their high school diploma. High school students who successfully complete a course(s) can also apply the credits earned towards their future university degree. The courses offered to high school students will be first-year UNBC courses. In order to qualify for dual credit, the British Columbia Ministry of Education requires that the course be approved by the student's home high school before the student registers for the course.

High school students wishing to take a UNBC course to obtain Dual Credit must be in grade 12 and must be in good academic standing at the time of application. In addition, students must obtain the signature of their principal (or guidance counsellor) and a parent or guardian (if under 18 years old) indicating that they are capable of successfully completing a university level course.

While students may take up to three courses from UNBC for Dual Credit, they may only take one course at a time. Upon completion of the course, a transcript will be mailed to the student and to the high school. It should be noted that successful completion of a Dual High School/University Credit course does not guarantee future admission to UNBC.

International Baccalaureate

Students who are awarded an International Baccalaureate Diploma may be awarded up to 30 credit hours of transfer credit upon receipt of the official transcript from the International Baccalaureate headquarters. Students who are awarded the diploma must have an overall standing of four, with no course below a three. Diploma students are required to present three Higher level subjects and three Subsidiary level subjects in order to be eligible for transfer credits.

Students who are awarded the International Baccalaureate Certificate must have a grade of four in each Higher level subject to be eligible for individual course transfer credit. Subsidiary level subjects are not eligible for transfer credit on a certificate program.

A list of acceptable IB courses is available in the BC Transfer Guide (available online at www.bccat.bc.ca).

Advanced Placement

Students who take the College Board Advanced Placement courses in high school may be awarded transfer credit upon receipt of the official exam results from the College Board. UNBC Institution Code 2023 is required when ordering official transcripts. Courses completed with a grade of four or above will be awarded transfer credit. Students who have completed AP courses with a grade of three may be considered for Advanced Standing. Advanced Standing allows a student to register in a higher level course without the required prerequisite. However, as credit is not awarded, advanced standing will not reduce the number of credits that a student must accumulate to obtain a UNBC degree. As a result a student must make up this credit by completing another course to be used towards their degree requirements. A listing of acceptable AP courses for transfer credit is available on the BC Transfer Guide's website at http://bctransferguide.ca/guides/ap.

British Columbia Adult Graduation Diploma

Applicants must be at least 19 years of age and have successfully completed the BC Adult Graduation Diploma and the appropriate entrance requirements for Degree Group at the Grade 12 level with an overall average of 65% or better. Applicants in this category are not required to complete a fifth grade 12 course as noted in the Admission Requirements by Degree Group Table.

Admission from Secondary Schools and CEGEP in Other Canadian Provinces

Alberta, the Northwest Territories and Nunavut

Successful completion of an academic grade 12 program that leads to graduation and includes at least five courses with an overall 65% average selected from:

- English Language Arts 30-1
- at least three additional courses selected from the following: Aboriginal Studies 30, Biology 30, Blackfoot Language & Culture 30, Chemistry 30, Chinese Language & Culture 30, Cree Language & Culture 30, English 35, Experiential Science 30 Français 30-1 or 30-2, French 30, French 31A/B/C, French Language Arts 30-1 or 30-2, German 30/30S, German 31, German Language Arts 30, German Language & Culture 30, Gonawo K'e 35, Inuktitut 35, Inuktitut Studies 35, Italian Language & Culture 30, Japanese Language & Culture 30, Latin 30, Mathematics 30-1, Mathematics 31, Physics 30, Pure Mathematics 30, Science 30, Social Studies 30-1 or 30-2, South Slavey 35, Spanish Language & Culture 30, Ukrainian Language & Culture 30/30S, Ukrainian Language Arts 30

 additional level 30 or level 31 courses necessary for the successful completion of grade 12. The fifth course subject must be distinct from the four academic courses (e.g., English Language Arts 30-1 and English Language Arts 30-2 cannot both be used).

Saskatchewan

Successful completion of an academic level three (grade 12) program that leads to graduation and includes at least seven academic courses with an overall 65% average (five of which are at the 30 level) selected from:

- English A30 and B30
- Math A30, or B30, or C30 or Pre-Calculus 30
- at least three additional courses numbered 30 or 30H selected from the following subjects: Biology 30, Calculus 30, Chemistry 30, Computer Science 30, Economics 30, Français A30 or B30, French 30, Geography 30, Geology 30, German 30, History30, Latin 30, Law 30, Mandarin 30, Mathematics 30, Native Studies 30, Physics 30, Psychology 30, Social Studies 30, Spanish 30, Ukrainian 30, Ukrainian Language Arts 30,
- additional acceptable courses necessary to graduate

Manitoba

Successful completion of an academic Sr 4 level (grade 12) program that leads to graduation and includes at least five courses with an overall average of 65% selected from:

- English 40S (One of Comprehensive Focus, Literary Focus or Transactional Focus)
- three or more of the additional courses should be selected from the following: Biology 40S, Chemistry 40S, Computer Science 40S, Français 40S, Geography 40S, History 40S, Language 40S, Law 40S, Mathematics 40S, Native Canadian Languages 40S, Physics 40S, Pre Calculus 40S, Social Science 40S/World Issues 40S, Western Civilization 40S
- one additional course from above or another area at the 40A (advanced), 40G (general), or 40S (specialized) level and any further work necessary to graduate

Ontario

Successful completion of the Ontario Secondary School Diploma (OSSD), or equivalent, including five grade 12 U or 4U/4M courses with an overall 65% average including:

- English 4U
- four additional 4U/4M courses

All high school courses applied as prerequisites for UNBC courses must be drawn from the "University" designation. Not more than one course proposed for admission may be drawn from the "Arts" category.

Admissions: Other Canadian Provinces and Territories, Post Secondary

Quebec

Successful completion of at least 12 acceptable university preparatory CEGEP courses with a minimum overall average of 70%, selected from:

- at least two pre-university English courses
- 10 additional pre-university courses deemed appropriate for entry into the academic program of choice.

Students who complete more than 12 pre-university CEGEP courses with a minimum grade of 70% in each course may receive up to 30 credit hours of transfer credit.

Quebec Grade 12

Applicants who successfully complete a Quebec grade 12 program with an overall 65% average must present:

- English
- at least three additional university preparatory courses selected from Mathematics, Sciences, Languages, Literature, Social Sciences, History, Geography
- additional academic subjects required for graduation

New Brunswick

Successful completion of an academic (college preparatory) program that leads to graduation with an overall 65% average and including at least six courses from:

- English 121 or 122
- at least three additional grade 12 academic courses coded 120/121/122

 selected from Advanced Mathematics, Atlantic Literature.
 - selected from Advanced Mathematics, Atlantic Literature, Biology, Calculus, Canadian Literature, Chemistry, Computer Education, Economics Environmental Studies, Français, French, Geography, Geology, History, Latin, Mathematics, Physics, Political Science, Psychology, Sociology, Spanish, Statistics, Writing, World Issues
- additional academic course(s) necessary to graduate

Prince Edward Island

Successful completion of an academic or advanced academic program that leads to graduation with an overall 65% average and including:

- English 621 or 611
- at least three additional courses numbered 611 or 621 selected from Biology, Chemistry, Computer Studies, Economics, Exploring Civilizations, Français, French, Geography, History, Mathematics, other languages, Physics, Political Science, Sociology
- additional academic course(s) necessary to graduate

Nova Scotia

Successful completion of an academic program (university preparatory) that leads to graduation with an overall 65% average and including at least five subjects from:

- English 12, or English 12 African Heritage
- at least two courses numbered 12 selected from Biology, Canadian Literature, Chemistry, French, Gaelic, Geography, German, Global History, Latin, Mathematics, Advanced Mathematics, Pre-Calculus Mathematics, other languages, Physics, Spanish
- additional 12 courses from above or from Comparative Religion, Computer Studies, Earth Sciences, Economics, Entrepreneurship, Food Science, Global Geography, Geology, , Law, Modern World Problems, Music, , Political Science, Sociology, Statistics, additional academic course(s) necessary to graduate

Newfoundland and Labrador

Successful completion of an academic program that leads to graduation with an overall 65% average, and including at least 13 credits selected from:

- English 3201 or completion of the former Language 3101 and either Thematic Literature 3201 or Literary Heritage 3202
- Mathematics 3200, 3201, 3204 or 3205
- at least one of Biology 3201, Chemistry 3202, Physics 3204, Earth Systems 3209
- at least one of Advanced Writing 3103, Computer Technology 3200, Environmental Science 3205, Global Issues 3205, World Literature 3216, World Religions 3101/3106 or Geography, History or languages at the 3000 level
- at least two additional credits at the 3000 level
- additional academic course(s) necessary to graduate

Post Secondary Admissions

Statement on Transfer

To apply for admission as a transfer student, a minimum of 15 credit hours of acceptable transfer course work must be presented and a proposed Major must be declared.

Following review and approval of relevant transfer credit by the Office of the Registrar and the Program Chair of the student's selected major, students completing a four-year degree program at UNBC may be eligible to receive up to 90 credit hours of transfer credit from a recognized sending institution.

Note:

- Applicability of transfer credit will vary with the number of electives and/or lower and upper-division requirements for a particular degree.
- For admission purposes, a minimum transfer grade point average of 2.0 or C (63-66.9%), calculated based on all previous post-secondary institutions attended, is required.
- 3. Any applicant who has been required to withdraw or has been placed on academic probation by the transferring institution:
 - must wait for three full semesters before being admissible to UNBC, and
 - must outline any work completed or experience gained which would better qualify them to successfully complete work at UNBC
- No transfer credit will be awarded for any course with a grade of less than 0.67 or D- (50-52.9%).
- 5. Failure to declare attendance at any post secondary institution could result in severe disciplinary action by the University and transfer credit will not be considered for transcripts provided in this manner. Information on falsifications may be shared with the Member Institutions of the Association of Registrars of Universities and Colleges of Canada.

Time Limit for Transfer Credit

Transfer credit normally will not be awarded for courses completed in excess of 10 academic years prior to the date of first UNBC registration. Students who wish to have such credit recognized should apply in writing through the Office of the Registrar to the appropriate Program Chair(s). Programs may specify a shorter time period at their discretion.

Letter of Permission

Please note: UNBC students wishing to complete courses at another university to transfer back to a degree or certificate at UNBC must obtain a Letter of Permission before taking these courses. For more information see Academic Regulation 19 in this Calendar under General Academic Regulations of the Undergraduate Regulations and Policies.

Admission from a BC College, University, and Yukon College

University Transfer Programs Including Associate of Arts or Science Degrees

To meet admission requirements, the cumulative grade point average (CGPA) on all transferable courses attempted must be at least 2.0 or C (63-66.9%). While all courses attempted are included in the calculation of a student's admission GPA, no transfer credit will be awarded for any course with a grade of less than 0.67 or D- (50–52.9%).

Transfer credit is awarded according to agreements articulated in the BC Transfer Guide (available online at www.bctransferguide.ca).

Note: UNBC guarantees priority admission and full transfer credit (minimum of 60 credit hours) to students transferring with an Associate of Arts or Science degree.

Diploma Programs

To meet admission requirements, applicants must present a minimum cumulative GPA of 2.0 or C (63-66.9%).

Transfer credit for articulated courses is awarded at the point of admission. Upon declaration of a major in a related degree program, or direct admission into Nursing or Social Work degrees, students who hold specific Business Administration, Natural Resource Management or Environmental Studies or Nursing or Social Work Diplomas may be eligible for additional block credit.

Please note: To receive transfer credit in certain program areas, a higher minimum grade is required.

2 + 2 Programs

Okanagan College Diploma in Environmental Studies (Environmental Management and Interdisciplinary Environmental Arts Options)

Students who have successfully completed the Diploma in Environmental Studies (Environmental management or Interdisciplinary Environmental Arts Option) from Okanagan College, with a cumulative GPA of 2.0 or greater, are eligible for admission into the BA Environmental Studies (Okanagan Completion) Program.

Northwest Community College Associate of Science Degree – Environmental Geosciences Specialization

Students who have successfully completed the Associate of Science Degree – Environmental Geosciences Specialization from Northwest Community College with a cumulative GPA of 2.0 or greater, are eligible for admission in the BSc (Integrated) (Northwest Community College Completion) Program.

Admission from a College Outside BC and Quebec

The CGPA on all transferable courses attempted must be at least 2.0 or C (63-66.9%). No transfer credit will be awarded for any course with a grade of less than 0.67 or D- (50-52.9%).

Individual transfer credit is awarded for course work deemed to be university transferable in the home province on an individual basis. Holders of two-year diploma programs may be eligible for block credit, to a maximum of 30 credits.

Admission from Institutes of Technology

To meet admission requirements, the CGPA on all transferable courses attempted must be at least 2.0 or C.

Transfer credit is awarded towards a relevant UNBC degree program on an individual basis, to a maximum of 30 credits.

Admission from a College of Applied Arts and Technology (Ontario)

All students admitted from a College of Applied Arts and Technology (CAAT) are strongly encouraged to seek academic advising prior to registering for courses and/or declaring a degree program.

Students completing less than two full semesters at a CAAT will not be considered for admission under this category. Students in this situation should consult the section dealing with admission from high school.

Students who wish to transfer to UNBC after completing at least two full semesters of a diploma program at a CAAT may be considered for admission to first year at UNBC. Students must have a minimum grade point average of 70% on their course work from the CAAT.

Normally, students who meet the grade requirements may be awarded up to 30 credit hours of block transfer if the academic program is relevant to the degree program sought at UNBC.

Other Admission Categories

Admission from a Canadian University

The following minimum conditions will apply to all applicants under this category of admission:

- applicants must be in good academic standing at a Canadian university
- the cumulative grade point average must be at least 2.00 (C)
- no credit will be awarded for any course with a grade of less than 0.67 (D-)

Mature Student Entry

Each mature student application will be reviewed on its own merits. Mature applicants must:

- be Canadian Citizens or permanent residents of Canada
- have been out of secondary school for at least three years
- be 21 years of age on or before the first day of classes
- have attempted fewer than 15 post-secondary academic credits

Students must submit transcripts of any post-secondary work that they have completed for the purpose of prerequisite checks, and a résumé of both academic and other activities (employment, service, etc.) for the past three years. The University may exercise its discretion by admitting on a probationary basis.

Special Entry

Where applicants do not meet the requirements under any specific category of admission, or where there are extenuating circumstances, application may be made under the category of Special Entry. In these instances, applicants will be assessed on an individual basis and may be asked to provide:

- any and all academic transcripts
- a résumé of both academic and other activities (employment, service, etc.) for the past three years

In addition, applicants under this category may be asked to present themselves for an interview.

Normally, special entry students will enroll on a part-time basis for at least one semester.

Any admissions conditions involving the achievement of a specific grade point average will be reviewed after the first semester. The normal requirement to continue studies would be a C average in a course load not to exceed six credit hours. Failure to achieve the required grade point average will result in further registration being denied. Once admission requirements are cleared, the student will proceed as a regular UNBC student.

Interest Only

Students who do not intend to pursue a degree or certificate program at UNBC, but want to take courses for credit, may do so under the category of Interest Only to a maximum of 30 credit hours, provided they have not previously been refused admission to UNBC under any other category. This category of admission permits easy access to UNBC studies as minimal documentation at the point of entry is required.

Interest Only students must:

- Enroll on a part-time basis at UNBC (fewer than 9 credit hours)
- Re-apply every semester
- Obtain a minimum semester grade point average of 2.00 in order to remain eligible for re-entry under this category.

Note:

- Interest Only students who wish to continue their studies beyond 30 credit hours in pursuit of a UNBC credential must re-apply, meet the general admission requirements as stated in the Calendar and, as applicable, declare a Major (see Academic Regulation 22).
- Applicants whose first language is not English should refer to the section English Language Requirements.
- Applicants currently on academic probation or required to withdraw from any post-secondary institution are not eligible to apply for admission under this category.

Audit Only

Students wishing to participate in university courses, but not for credit, may apply for audit status. Audit students must submit an application for admission and pay the application fee. Audit students are not required to meet the admission requirements.

Students wishing to audit a course must obtain approval from the instructor. Forms for audit approval are available from the Office of the Registrar. Approval from the instructor in no way guarantees that an audit student will be able to register in the course. Priority for registration will be given to students taking the course for credit.

Audit courses do not meet prerequisites or course/program requirements.

Students wishing to change from audit to credit status must obtain approval from the instructor. Changes in status must take place prior to the last day to add courses in the given semester (prior to the third week of classes).

The degree of participation in a course for an audit student is at the discretion of the instructor. Audit students are not entitled to write the final exam or be granted credit for the course.

Note:

Students may re-register in an audit course for credit. Full-time UNBC students are not charged for audit courses. All other audit students are required to pay one-half of the regular tuition fee for the audit course. All other related fees must be paid in full by all audit students.

Studying at UNBC as a Visiting Student (on a Letter of Permission)

Students who are enrolled and in good standing at another college or university may attend UNBC on a Letter of Permission from their home institution. It is the student's responsibility to ensure that they meet any course prerequisites. Individuals planning to attend UNBC on a Letter of Permission should complete an application for admission, pay the application fee, and arrange to have the Letter of Permission sent, along with a copy of their most recent transcript, directly to the Office of the Registrar. Facsimile versions of this information will be acceptable on a provisional basis subject to receipt of the original.

Continuing Studies Credit

Certain courses offered through Continuing Studies may earn UNBC credit without the student having to be admitted formally. See "Continuing Studies" under the Services and Facilities section in this calendar or online at www.unbc.ca/continuingstudies.

Admission to a Second Undergraduate Degree

Students having a recognized first undergraduate degree may be eligible to take a second degree at the Bachelor's level. Students can expect to complete a minimum of 60 credits plus any unmet first- and second-year requirements. UNBC reserves the right to deny admission under this category where the program completed and the program sought are too similar.

International Admissions

The University of Northern British Columbia welcomes applications for admission from qualified students from other countries. Completed, appropriate secondary qualifications from other countries will be considered for High School admission, and study at recognized universities and colleges will be considered for Transfer admission.

International Students are welcome to consider a Co-operative Education option of their program (see Programs-Co-operative Education).

International applicants must be in good academic standing and be able to demonstrate an acceptable level of proficiency in English. Applicants whose first language is not English should refer to the section English Language Requirements.

Each international application will be reviewed on its own merits. Please refer to page 25 for information on admission deadlines.

Admission with a General Certificate of Education (or Equivalent)

Students applying for admission from a GCE system (or equivalent) must present a minimum of two Advanced (A) level subjects and three Ordinary (O) level subjects, and have an overall grade point average of C in order to be considered for admission. All A level subjects presented for admission must have a grade of at least C. Students may substitute two Advanced-Subsidiary (AS) level subjects for one A-level.

Students who present A-level subjects with grades of at least C may receive up to six credit hours of transfer credit for each course.

Students who have completed a General Certificate of Education at the Ordinary Level (O level) are not considered eligible for admission to first year at the University of Northern British Columbia.

English Language Requirements

English is the primary language of instruction and communication at UNBC. Consequently, it is expected that an applicant be able to demonstrate an acceptable level of proficiency in the use of English in order to receive and participate in classroom instruction and discussion as well as to complete written assignments.

Applicants whose first language is not English, regardless of citizenship or country of origin, must submit evidence of English language proficiency prior to admission. French-speaking Canadians and Canadian First Nations language speakers are exempted from this requirement. Students who completed five consecutive years of instruction and examination entirely in the English language immediately before admission (i.e., within two years of application) are exempted from this requirement. Students who have completed secondary education taught entirely in the English Language at a recognized institution may be exempted from this requirement by providing proof. An up to date list of countries where students are exempt from the English Language Proficiency requirements can be found on the Admission pages of the UNBC website.

Acceptable evidence of English language proficiency may be any one of the following:

- TOEFL (Test of English as a Foreign Language) score of 90 or higher in the internet-based test, with not less than 20 in each of the Reading, Listening, Writing or Speaking components; Score of at least 230 in the computer based or at least 570 in the paper based test. UNBC's institutional TOEFL code is 0320.
- IELTS (International English Language Testing System) Academic score of at least 6.5 overall, with not less than 6.0 in any of the four modules.
- A final grade of 2.00 (C) or better in the UNBC English Language Studies 50 and English Language Studies 170.
- A final grade of 2.00 (C) or better in an articulated BCCAT EAP 4 program.
- A final grade of 70% or better in English 12 from the British Columbia secondary system.
- A final grade of 75% (B) or better in a University Transferable English course.

- Completion of two full years of full time degree level studies or equivalent at a recognized institution where English is the language of instruction.
- A final grade of 2 or better in Advance Placement (AP) English Literature & Composition or AP Literature & Composition.
- A final grade of 3 or better in International Baccalaureate (IB) English A1 or A2 (higher or subsidiary level).
- MELAB score of 80, with a minimum 3 on the Speaking Rating Scale
- CELPIP Academic Test score of 4H or higher in each of the Reading, Listening, Writing, and Speaking components
- CAEL (Canadian Academic English Language) or the CAEL CE Assessment score of at least 70, with no subtest below 60.
- A grade of B or better on Cambridge English: Advanced (CAE).
- PTE (Pearson Test of English Academic): 65 overall score, with 60 reading, 60 writing, 60 listening, and 60 speaking.

For the Northern Collaborative Baccalaureate Nursing Program (NCBNP), the following are required for admission:

- fulfillment of the BC Secondary School English 12 requirement (70%), and
- either an IELTS (International English Language Testing System) Academic, or a CELBAN (Canadian English Language Assessment for Nurses) with current, valid results and scores as set by CRNBC for the year of admission.

In order to be considered valid, results must be sent directly from the testing agency/institution to the Office of the Registrar. Scores are valid for a period of two years.

Undergraduate Regulations and Policies

I. Notification of Disclosure of Personal Information to Statistics Canada

Statistics Canada is the national statistical agency. As such, Statistics Canada carries out hundreds of surveys each year on a wide range of matters, including education.

It is essential to be able to follow students across time and institutions to understand, for example, the factors affecting enrolment demand at post-secondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand 'outcomes.' In order to carry out such studies, Statistics Canada asks all colleges and universities to provide data on students and graduates. Institutions collect and provide to Statistics Canada student identification information (student's name, student ID number, Social Insurance Number), student contact information (address and telephone number), student demographic characteristics, enrolment information, previous education, and labour force activity.

The Federal Statistics Act provides the legal authority for Statistics Canada to obtain access to personal information held by educational institutions. The information may be used only for statistical purposes, and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student.

Students who do not wish to have their information used are able to ask Statistics Canada to remove their identification and contact information from the national database.

Further information on the use of this information can be obtained from Statistics Canada's website: www.statcan.gc.ca or by writing to the Postsecondary Section, Centre for Education Statistics, 17th Floor, R.H. Coats Building, Tunney's Pasture, Ottawa, K1A 0T6.

II. BC Freedom of Information and Protection of Privacy Act

The University of Northern British Columbia gathers and maintains information used for the purposes of admission, registration and other fundamental activities related to being a member of the UNBC community and attending a public postsecondary institution in the Province of British Columbia. Information provided to the University by students, and any other information placed into the student record, will be protected and used in compliance with the BC Freedom of Information and Protection of Privacy Act (1992).

III. Student Conduct Statement of Principles

1. Introduction

The University of Northern British Columbia ("University") is an academic community whose purpose is to search for knowledge through teaching, research, and the free exchange of ideas. As such, the University is committed to developing among its members an enduring sense of community rooted in a working and learning environment which emphasizes mutual respect and tolerance and which is free from discrimination, harassment, disruptive behaviour, and violence. The members of the University community include students, faculty, staff, administrators, governors, senators, and, in certain contexts, visitors. In order for the members of the University community to participate fully and effectively in the University's purpose, certain standards of conduct must be recognised and respected.

2. Purpose

The purpose of this policy is:

- to set out the standards of conduct which apply to student members of the University community in connection with their participation in University-related activities and behaviour while on any of UNBC's campuses;
- to establish procedures for investigating a complaint that a student has breached this policy;
- to provide penalties for those students who have breached this policy; and,
- to identify the procedure which will govern an appeal by a student who has been found to have breached this policy.

This policy is intended to address major concerns about student misconduct and is not intended to interfere with faculty and administration's ability to deal with minor acts of misconduct in an informal and consensual manner, where appropriate.

3. Definitions

- a. "Campus life" is any activity that occurs as part of life on campus. This includes but is not limited to:
 - being present on campus, whether as a student or the guest of a UNBC student,
 - ii. living in Residence,
 - iii. working on campus,
 - iv. attending classes, university-sponsored events, student society-sponsored events.
 - v. conducting university-sponsored research or lab activity, and
 - vi. operating a vehicle on campus
- b. "Director" is the Director, Student Success
- c. "University employee" is a faculty or staff member.

4. Statement of Principles

- Every student has the right to participate freely as a member of the University community subject only to reasonable conditions governing eligibility and the payment, when required, of appropriate fees or charges.
- b. Free participation in campus life requires the existence of an environment free from discrimination, violence and threats of violence, direct or indirect physical interference with one person by another person, intimidation, and verbal abuse, whether oral or written.
- c. Members of the University community must recognize and accept that the free exchange of ideas will involve exposure to the formulation and expression of ideas with which an individual is in fundamental disagreement or which an individual finds offensive. The University's purpose requires that the formulation and expression of such ideas must be tolerated, provided that neither the formulation nor the expression of such ideas violates any generally applicable laws of Canada or British Columbia or any policies of the University. Toleration does not require acceptance of such ideas, nor does it preclude the formulation and expression of a critical response to such ideas, provided that neither the formulation nor the expression of such a response violates any generally applicable laws of Canada or British Columbia or any policies of the University.
- d. Student members of the University are expected to:
 - i. comply with the generally applicable laws of Canada and British Columbia;
 - ii. honour contractual obligations arising in connection with a student's membership in the University community;
 - iii. comply with the applicable academic regulations of the University, and;
 - iv. comply with the University's policies.
- This policy must be interpreted and applied in conformity with both the University's purpose as an academic community and the above Statement of Principles.

5. Student Standards of Conduct

Within the framework set out in the Statement of Principles, acts of student misconduct subject to penalty under this policy include but are not limited to:

- a. threatening or engaging in behaviour that a reasonable person would perceive to be intimidating or offensive, or that may endanger the health or safety of students, faculty, staff or administration of the University;
- b. participating in disruptive action including but not limited to:
 - i. disrupting instructional activities including lectures, seminars, labs, examinations and tests;
 - ii. physically or verbally abusing another person;
 - iii. repetitive or intrusive use of indecent, profane or vulgar language in a public place that disturbs others;
 - iv. obstructing the rights and privileges of other members of the University community;
 - v. disrupting campus life by electronic means, whether directly or indirectly;
 - vi. obscenity
- harming another person at or in connection with that person's participation in campus life;

- misappropriating, converting, destroying, permanently defacing, or otherwise damaging University property, resources, or the property and resources of other members of the University community:
- e. possessing the property of other members of the University Community without proper authorization;
- f. forging, falsifying, misusing, or altering any University data or record whether in physical or electronic form;
- g. obtaining or using, whether directly or indirectly, University equipment, material, or services by fraudulent or other unlawful means:
- possession or use of intoxicants on campus, except within approved areas under the University's Liquor Policy;
- i. possession for use or sale of illegal drugs;
- j. possession or use of firearms, fireworks, or other inherently dangerous objects on campus;
- failing to comply with the reasonable directions of a University employee or a University Security Officer, or a Police Officer when they are acting in performance of their duties at or in connection with campus life;
- breaching any law of general application of Canada or British Columbia in connection with campus life;
- aiding, abetting, or acting as an accomplice at or in connection with any prohibited conduct; and;
- any other misconduct which significantly interferes with the University's operations.

6. Responding to Apparent Breaches of This Policy

Emergencies

If a student's conduct appears to pose a threat to the student's own safety or to the safety of another person, any person witnessing the conduct should contact campus security immediately. Where there is a risk of injury or harm to any person or property, the student whose conduct is in question may be required to leave the University's property immediately pending and during an investigation into the alleged misconduct. Campus security must promptly prepare a Report to be given to the Director.

Reports of Allegations of Student Misconduct

University employees, including faculty, administration and staff may report allegations of student misconduct to the Director on the prescribed form.

Complaints of Allegations of Student Misconduct

Members of the University community who are not University employees (students, vendors, external stakeholders) may file a Complaint alleging that a student has engaged in misconduct, in breach of this policy.

The person filing the Complaint will be known as the "Complainant." The person about whom the Complaint is made will be known as the "Respondent." Such a Complaint must be made to the Director on the prescribed form and must set out in detail the facts on which the

Complaint is based. A Complaint must be made within 45 days of the last event which is the subject of the Complaint, unless the Director allows a longer period of time. In allowing a longer period of time the Director must consider the following factors:

- a. the reasons for the Complainant's delay in filing the complaint;
- b. whether there will be prejudice to the Respondent or another person as a result of the delay, and;
- the seriousness of the misconduct alleged against the Respondent.

The Director will, upon receipt of the Report or the Complaint, consider the alleged acts of misconduct and decide:

- that the allegations, if true, do not constitute misconduct under this policy and decline to act on the Report or the Complaint;
- not to investigate the Report or the Complaint because the allegations are trivial or frivolous;
- c. that the allegations fall under another University policy or fall under both this policy and another University policy, in which case the Director must refer the Report or the Complaint to the University official responsible for the administration of the other University policy and consult with the other University official and determine an orderly method of proceeding that will ensure that all elements of the Report or Complaint will be investigated;
- that the allegations in the Complaint or the Report should be investigated or otherwise addressed in accordance with this policy.

The Director will notify the person who made the Report or the Complaint of the decision.

Prior to investigating a Complaint and with the consent of the Complainant and the Respondent, the Director may refer a Complaint to mediation by a mediator appointed by the Director. If the Complaint is resolved, the resolution will be put in writing, signed by the parties and filed with the Director. If the Complaint is not resolved through mediation, the Director will investigate the Complaint.

Reports or Complaints of Criminal Misconduct

If the Director determines on reviewing a Report or a Complaint that the allegations may constitute one or more criminal offences, the Director must inquire as to whether the Complainant has reported or intends to report the allegations to the police. If the Complainant has reported or intends to report the allegations to the police, the Director will coordinate the University's investigation with the police investigation.

Investigation of Allegations in a Report or Complaint

In conducting an investigation, the Director will engage in detailed interviews of the person who filed the Report or the Complainant; and with the student about whom the Report is made or the Respondent; and with any other witness who the Director believes has information relevant to the investigation; and will review all documents which the Director identifies during the investigation as relevant to the investigation.

After concluding the investigation, the Director must prepare an Investigation Report for the Provost setting out findings of fact and a conclusion about whether those findings constitute a breach of this policy.

Duties of the Provost in Disciplinary Cases

On receipt of the Investigation Report, the Provost must deliver a copy to the Complainant and to the Respondent. Both the Complainant and the Respondent will be entitled to make a written submission about any matter contained in the Investigation Report. Any such submission must be delivered to the Provost within a time limit established by the Provost, always provided that the time limit must not be less than 5 working days and must be the same for both the Complainant and the Respondent. The Provost has the discretion to extend any time limit previously set.

After the deadline for any submissions has passed, the Provost must review the Investigation Report and all of the submissions received in the case of a Complaint and must make a decision. The Provost has the discretion to accept or vary the Director's conclusion.

If the Provost decides that a breach has not occurred or that the Complaint is trivial, the Provost will dismiss the Report or the Complaint. If the Provost decides that a breach of this policy has occurred, the Provost will decide on the appropriate penalty. The available options include, but are not limited to, the following:

- a written reprimand, which will form part of the student's permanent record;
- b. a performance contract;
- c. suspension for a specified period;
- d. suspension for an indefinite period, with or without the ability to apply for readmission to the University after a fixed period;
- e. eviction from UNBC Residences
- f. prohibition from entering UNBC Residences
- g. payment in part or for all of the costs for replacing or repairing damage to the University's property;
- any other action deemed appropriate in the circumstances, including the provision of remedial measures to the Complainant (where applicable).

If the disciplinary response involves any form of suspension, the President must review the Director's Investigation Report and any submissions made by a Complainant and a Respondent and make the decision.

7. General Matters

Nothing in this policy affects the President's authority under the University Act to suspend a student or to deal summarily with a matter of student discipline.

Regulations and Policies

It is a serious act of misconduct to file a false and malicious Complaint under this policy or to file a Complaint solely for the purpose of retaliating against another person. Similarly, it is a serious act of misconduct to retaliate in any manner against a person for filing a Complaint or a Report or responding to a Complaint or a Report or for participating in a proceeding under this policy. The University will respond to all such acts of misconduct under the terms of the policies and contracts governing the University's relationship with the person who has engaged in the misconduct.

8. Appeal of a decision imposing discipline under the Student Conduct Statement of Principles

A student who is subject to a penalty imposed by the President or Provost (or delegate) (the Decision Maker") under Regulation and Policy III, Student Conduct Statement of Principles ("Student Conduct Policy"), may appeal to the Senate Committee on Student Discipline Appeals ("SCSDA"). The SCSDA is the final adjudicator of appeals under the Student Conduct Policy.

A copy of the procedures for appeals under the Student Conduct Policy is available from the Office of the Registrar. Please note that the procedures include a 15-day time limitation for filing a notice of appeal.

Appeals of academic decisions under Regulation and Policy V: General Academic Regulations and appeals of decisions under Regulation IV: Harassment, Discrimination and Diversity Initiatives are addressed under those regulations and policies.

9. Grounds for an Appeal under the Student Conduct Policy

An appeal to the SCSDA is not a full re-hearing of the decision to impose discipline. A student's appeal of the imposition of discipline under the Student Conduct Policy to the SCSDA must be made on one of more of the following bases:

- The Decision Maker incorrectly applied a University policy and, as a result, the decision was unfair;
- The student has material evidence that was not reasonably available prior to the time of the decision under appeal, and knowledge of that evidence would probably have led to a different decision;
- c. During the process leading up to the imposition of discipline the student did not know the substance of the complaint and was not given, at some point in the process, a reasonable opportunity to respond, or the process was otherwise procedurally unfair.

10. Standards of Review

The SCSDA will review the Decision Maker's decision on one or more of the three grounds of appeal listed above, with regard to the standards of review listed below.

- a. Where the appeal is under 9 (a), the appropriate standard as to whether the Decision Maker misapplied a University Policy is correctness. The standard of review as to whether the decision was, as a result, unfair, is reasonableness; that is whether a reasonable person, knowledgeable about the facts, would perceive it to be unfair to let a decision based on the incorrect application of the policy stand.
- b. Where an appeal is under paragraph 9 (b), the appropriate standard of review is reasonableness; that is whether a reasonable person, knowledgeable about the facts, would perceive it to be unfair to let a decision made without consideration of the new evidence stand.
- c. Where an appeal is under paragraph 9 (c), the appropriate standard of review is reasonableness; that is whether a reasonable person, knowledgeable about the facts, would perceive the process to be unfair.

11. Outcomes

An appeal under the Student Conduct Policy will result in one of the following three outcomes:

- a. The Chair of the SCSDA, in consultation with the Registrar, may dismiss the appeal on a preliminary basis, on the basis that the appeal is frivolous, vexatious or an abuse of process;
- b. The SCSDA may uphold the disciplinary decision;
- c. The SCSDA may refer the matter back to the Decision Maker for further decision, or for further investigation and then further decision, as the Decision Maker may determine.

In all cases, where an appeal is allowed, the original penalty will remain in effect until the matter is reconsidered and a further decision is made by the Decision Maker.

IV. Harassment, Discrimination and Diversity Initiatives

The University of Northern British Columbia is committed to providing a working and learning environment in which all students, staff and faculty are treated with respect and dignity. The University of Northern British Columbia acknowledges the right of all individuals in the University community to work or learn without discrimination or harassment because of race, colour, ancestry, place of origin, religion, family status, marital status, physical disability, mental disability, sex, age, sexual orientation, political beliefs or criminal or summary conviction offense unrelated to their employment. An approved policy, available at http://www.unbc.ca/assets/policy/diversity/harassment_ and_discrimation_final.pdf, applies to all members of the UNBC community and is administered by the Harassment and Discrimination Advisor. For further information or assistance please contact the Harassment and Discrimination Advisor 960-6618.

V. General Academic Regulations

1. Purpose of Academic Regulations

UNBC is committed to high academic standards as well as to assisting students to achieve their educational goals.

The Academic Regulations provide the framework within which academic programs are completed, and offer academic guidance along the program path.

The University reserves the right to add to, alter, or amend these regulations at any time.

2. E-mail Communication

E-mail is one of the official means of communication between UNBC and its students. All students are assigned a UNBC e-mail address upon course registration. The e-mail address assigned to a student by the University will be the only e-mail address used by UNBC for communication with students for academic and administrative purposes. Students are responsible for checking their UNBC e-mail account regularly so as to remain current with administrative and academic notifications. It is the student's responsibility to ensure that time-critical e-mail is accessed, read, and acted upon in a timely fashion. If a student chooses to forward University e-mail to another e-mail address, it is the student's responsibility to ensure that the alternate account is active.

3. General Requirements for a Degree With a Major

First-entry undergraduate degree programs require a minimum 120 credit hours with (except for the BA General and BSc Integrated degrees, and professional programs) a major subject. A Major is a set of academic credits that, taken together, offers a strong concentration in a particular subject area or discipline as defined by the University Senate. Special regulations apply to individual degree programs and to honours degrees, the requirements for which should be consulted as well.

4. Continuing/Returning Students

A continuing student is one who has registered in one of the last three semesters. Unless such a student has been required to withdraw, or is suspended, the continuing student can return to the University without reapplying. A returning student is one who has not registered in any of the last three semesters. The student must reapply to the University and, if readmitted, will be governed by the general and program regulations in effect at the time of readmission.

5. Course Load

A full course load for a student is considered to be five courses (15 credit hours) in any one semester. Not more than 21 credit hours may be attempted in a semester except by permission of the Dean of the College in which the student is majoring or has indicated an intention to complete a degree.

6. Full-Time Studies

In any given semester, a full-time student is one who is registered in nine credit hours or more in that semester.

7. Part-Time Studies

Any student who registers in fewer than 9 credit hours per semester is considered a part-time UNBC student in that semester. Students applying to UNBC to study part-time are subject to the regular admission requirements.

8. Classification of Students

For purposes of classification and reporting, all undergraduate students in first-entry programs will be designated as First Year, Second Year, Third Year, or Fourth Year students.

To be considered a Second Year student, one must have obtained a minimum of 30 semester hours of credit towards a degree, or at least 21 semester hours of credit and be registered for sufficient additional semester hours of credit in the current or next semester to total 30.

To be considered a Third Year student, one must have obtained a minimum of 60 semester hours of credit towards a degree, or at least 51 semester hours of credit and be registered for sufficient additional semester hours of credit in the current or next semester to total 60.

To be considered a Fourth Year student, one must have obtained a minimum of 90 semester hours of credit towards a degree, or at least 81 semester hours of credit and be registered for sufficient semester hours of credit in the current or next semester to total 90.

9. Auditing Courses

To audit a course is to attend lectures without being responsible for doing assignments or writing examinations.

No credit is given for a course taken in this manner, but courses audited will be recorded on a student's transcript.

To audit a course, a student needs the permission of the instructor, and in some cases must pay an auditing fee.

Except by the express permission of the instructor, an auditing student does not participate in class discussion.

10. Class Attendance

Students are expected to attend classes on a regular basis. Instructors may establish attendance requirements for each class. These expectations must be defined in the course syllabus.

11. Challenge for Credit by Examination

Under the conditions set out below, students may challenge for credit in a course by writing an examination during an examination period or at a time designated by the course instructor. To be eligible to challenge for credit, a student must be currently registered at UNBC, or have been admitted to study at UNBC other than on a Letter of Permission. Each Dean, on the advice of the Program Chair, will decide which courses are eligible for challenge exams. Students who have earned credit for the course at UNBC or for the equivalent course at another institution, or who have audited the course at UNBC or another institution, or who are currently registered in the course at UNBC, are not eligible to challenge for credit in the course.

Students may not challenge a prerequisite course after successfully completing the advanced course. Students may not challenge a course which they have previously failed. Grades for course challenges are recorded on the transcript and the grade is included in the calculation of the grade point average.

Application for Course Challenge forms are available at the Office of the Registrar. Students must submit the completed and approved form and payment for the course challenge to the Office of the Registrar not later than the last day of classes in the applicable semester. The fee for course challenge is one-half the regular tuition fee for the course and is non-refundable.

Arrangements for a challenge examination may be cancelled up until the last day of classes in the applicable semester. A student who pays for a challenge exam and does not cancel the arrangement by the deadline or does not write the exam will receive a grade of F.

12. Advanced Standing

In cases in which course challenge is not possible or appropriate transfer credit is unable to be granted, the Program Chair or instructor, as appropriate, upon review of the student's background, may grant a student permission to undertake advanced course work without the normal prerequisites. Such advanced standing will not reduce the number of credits that the student must accumulate to obtain a UNBC degree.

13. Lower-Division and Upper-Division Courses

All 100 and 200 level course work is designated as "lower-division". Course work done at the 300, 400, and 500 levels is designated as "upper-division".

14. Residency Requirement for Graduation

Students must complete a minimum of 30 credit hours of upperdivision UNBC course work to receive a UNBC degree.

15. Academic Breadth

Students pursuing the degrees of BA, BComm, BHSc, and BSc are required to meet the University's Academic Breadth requirement as a condition of graduation. Each graduate is required to have completed successfully at least 3 credit hours from each of the following four areas, or to have transferred to UNBC from another institution acceptable credit hours such that the requirement is met:

Arts and Humanities: At least 3 credit hours of courses with the prefix ENGL, HIST, PHIL, WMST.

Social Science: At least 3 credit hours of courses with the prefix ANTH, COMM, ECON, EDUC, ENPL, FNST, INTS, NORS, ORTM, POLS, PSYC, RRT.

Natural Science: At least 3 credit hours of courses with the prefix BIOL, GEOG, ENSC, ENVS, FSTY, HHSC, NREM.

Physical Science: At least 3 credit hours of courses with the prefix ASTR, CHEM, CPSC, MATH, PHYS, STAT.

This requirement applies to all students admitted or readmitted to UNBC for studies beginning with the September 2010 Semester or later.

Students pursuing the degrees of BA Nature Based Tourism Management, BSc Biology and BSc Natural Resources Management (majors in Forest Ecology and Management, Outdoor Recreation and Conservation, and Wildlife and Fisheries) are exempt from this regulation because academic breadth has been incorporated within the curricula.

16. Official and Unofficial Transcripts

Official transcripts are confidential and are only released on authority of the student. Transcripts issued to an institution, company, or agency are mailed directly to their address, or held for pick-up at the Office of the Registrar in confidential envelopes marked 'Official Transcript'. In extenuating circumstances, offical transcripts may be issued to a student. Third-party requests must be accompanied by a signed authorization from the student.

Each transcript will include the student's complete record at the University. Since credit earned is determined on the results of final examinations, a transcript will not include results of midterm examinations.

Transcripts will not be released without payment of the required transcript fee, and/or if there is an outstanding financial obligation to the University.

Requests for transcripts can be made online through UNBC Student Online Services or by completing a Transcript Request Form available in the Office of the Registrar.

Unofficial transcripts are available to students directly through UNBC Online Services.

17. Evaluation of Transcripts

The evaluation of transcripts is the responsibility of the Office of the Registrar. Questions relating to transfer credit should be dealt with at the beginning of a student's program. Except for courses taken during that semester on a Letter of Permission, under no circumstances will consideration be given to transfer credits requested during the final semester (15 credit hours) of a student's program.

18. Time Limit for Transfer Credit

Transfer credit is not normally awarded for courses completed in excess of 10 years prior to the date of first UNBC registration. Courses more than 10 years old are normally assigned unspecified credit. Once transfer credit has been granted, a student must maintain their continuing student status (Undergraduate Academic Regulation 4. Continuing/Returning Students) in order for transfer credit to be retained.

19. Letters of Permission

A Letter of Permission ensures that courses successfully completed at another institution will be transferred to UNBC for consideration as credit toward the student's degree program. Before taking courses from other post-secondary institutions for credit on a Letter of Permission towards a UNBC credential, a student must:

- have completed at least 9 semester credit hours of study at UNBC
- b. be in good academic standing
- not have any outstanding obligation to the University, which may include, but is not limited to the following:
 - tuition fees owing
 - library or other fines owing
 - outstanding library loans
 - outstanding equipment or other loans

Course work taken on a Letter of Permission is considered to be transfer credit, and therefore subject to all policies and practices related to transfer credit.

Students who complete courses without having first obtained a Letter of Permission risk not having those courses accepted for transfer credit.

20. Criminal Records Review

Under the requirements of the Criminal Records Review Act (2008) UNBC requires, as part of the application process, criminal records reviews for applicants to program areas that involve working with children or other vulnerable persons. The cost of this search is the responsibility of the student. Criminal Records Search forms are available in the Office of the Registrar. Results which identify relevant criminal convictions may disqualify an applicant from admission into a program. Submission of a Criminal Records Search at the point of admission does not preclude either the program or provincial certification bodies from requesting a subsequent Criminal Records

Search prior to field placement or professional registration. Criminal Records Searches are requirements for the following programs:

- Bachelor of Education (BEd)
- Bachelor of Science in Nursing (BScN)
- Bachelor of Social Work (BSW)
- · Aboriginal Child and Youth Mental Health Certificate
- Child Welfare Certificate (CWC)

21. Student Access to Official University Record

Students have the right to inspect their Official University Record, including the student file, under the supervision of a staff member and as maintained by the Office of the Registrar. Students have the right to have access to their financial assistance file, as maintained by the Financial Aid and Awards Office under the supervision of a staff member. Assessment reports and letters of reference submitted by third parties in support of students applying to professional programs will not be available for inspection. Students may inspect their Official University Record during normal office hours, and upon advance request in writing. When students inspect their original records, examination will be permitted only under conditions that will prevent alteration or mutilation. In the event of a dispute as to the accuracy of the information maintained in their Official University Record, a student may appeal to the Registrar.

22. Declaring a Major

All undergraduate students other than students enrolled in programs leading to the degrees of BASc, BEd, BFA, BSW or General/Integrated degrees (for which Majors do not apply), are required to declare a Major before the end of the semester in which they will complete 30 credit hours (See Academic Regulation 2). Majors do not apply in the degree of BScN. Students intending to pursue a General or Integrated degree program must declare this intent before the end of the semester in which they will complete 30 credit hours. A student who transfers into the University must declare a Major at the time of application unless the transfer is to any of the degree programs indicated above. Declaration forms are available from the Office of the Registrar.

23. Double Majors

Double Majors are permitted in the BA, BComm, and BSc degree programs. Within the College of Science and Management, students pursuing the BPI degree are permitted to double major only within the degree program. Completion of the double major entails completion of the requirements for each Major. Any courses that are included in the requirements for both Majors may be counted for both. Note: If double majors fall between two degrees, students must select only one degree: BA, BComm or BSc. They do not qualify for more than one.

24. Minors, Areas of Specialization, and Areas of Focus

UNBC offers minors in a number of subject areas, as outlined in the Undergraduate Calendar. A minor requires a minimum of 18 credit hours and, in most cases, a maximum of 27 credit hours. At least 12 credit hours of any minor must be completed at the upper-division level. A maximum of two courses (6 to 8 credit hours) used to fulfill the requirements for a major (or another minor) may also be used to fulfill the requirements for a minor, except when specified in program regulations for individual minors. Students are not permitted to include more than two minors in the same degree program. Some degree programs require the mandatory completion of a minor in order to meet degree completion requirements. Please refer to the Undergraduate Programs pages for specific details. Minors are recorded on a student's official transcript.

An Area of Specialization is a set of courses required or expected to be completed within the context of a Major. Areas of Specialization require at least 12 credit hours, and are recorded on a student's official transcript.

An Area of Focus is a set of courses recommended to students who may wish to concentrate their studies within their Major. Areas of Focus are not required for the major, and are not recorded on the transcript.

25. Co-operative Education

Except by permission of the Co-operative Education Program:

- no student may be registered in more than one course in addition to a "Co-op Work Semester" during a work term.
- Co-operative Education students must finish their academic programs on an academic term, not a work term.
- no student may drop or withdraw from a "Co-op Work Semester" once registered in it.

26. Time to Complete an Undergraduate Degree

Except by permission of the Dean, students must complete their undergraduate degree program within 15 years of their first semester of registration.

27. Second Undergraduate Degrees

Students who have earned a Bachelor's level degree at UNBC or at any other accredited University may obtain a second Bachelor's degree (or the same Bachelor's degree in the case of the BA or BSc) from UNBC under the following conditions:

- 1. not more than sixty (60) of the credit hours counted towards the second degree may be taken from the first degree.
- the major subject in the second degree must be clearly distinct from the major subject in the first degree. Where there is any doubt on this point, the decision of the relevant Dean will be final. Students contemplating second degrees are encouraged to consult the relevant Dean in advance.

28. Application of Certain Professional Courses to Earn an Undergraduate Degree

With the approval of both the Program Chair and College Dean, certain credits in the Northern Medical Program at UNBC/UBC and in accredited programs in the health professions at other Universities may be accepted towards the Bachelor of Science Degree. Applications for degrees under this regulation will be considered on a case-by-case basis, and in no case subsequent to the conferral of the professional degree in question. Not more than thirty (30) semester hours of professional credits may be counted.

29. Registration after the Published Add/ Drop Date

No student is permitted to register for any course after the last date to add courses as published in the Calendar except on the express written permission of the Dean, on the advice of the instructor and of the Program Chair under whose authority the course is offered, as appropriate.

30. Change of Grade after Submission of Final Grades

Except for grade changes resulting from formal Academic Appeal, any changes in final grade after the initial grade submission must be transmitted to the Office of the Registrar through the appropriate Chair, except in cases where a Chair's grades must be approved by the appropriate College Dean.

31. Repeating Courses

Except by permission of the Chair, students are allowed to repeat a course only once. Both grades are recorded on a student's transcript, and only the higher grade will be calculated into a student's GPA and be used for credit towards a credential. In the case of more than one failed attempt, only the result of the most recent attempt will be calculated into the GPA. In cases where the repeated course is a required course for a specific degree, two failed attempts may result in the student being required to withdraw from that degree program.

Note: Repeating a course to achieve a higher passing grade may have implications for student loan purposes. See Financial Aid Coordinator.

32. Course Exemptions

At the direction of a Student's Academic Program Chair, specific course exemptions from course requirements may be granted. Nevertheless, the total number of credit hours for the degree still must be earned.

33. Graduation Constraints

 Normally, the Program regulations that apply to a student's graduation are those that applied in the Academic Year in which the student was most recently admitted for continuous registration.

- Students must apply to graduate. Application for graduation must be received by the Office of the Registrar no later than October 31st of the calendar year prior to the year in which graduation is contemplated, accompanied by the appropriate (non-refundable) graduation fee.
- Students are not permitted to graduate while on Academic Probation (i.e., CGPA less than 2.00) or while any Academic Appeals are pending.
- 4. Students are not permitted to graduate with deferred grades (DEF) remaining on their transcript.
- Students who have any outstanding obligation to the University will not be issued an official transcript. Outstanding obligations include, but are not limited to, the following:
 - · tuition fees owing
 - · library or other fines
 - · outstanding library loans
 - · outstanding equipment or other loans

34. Grounds for Withholding Official Transcripts

In instances of non-payment of any portion of tuition, prescribed fees or University library fines and/or bills, or of delinquency in the return or replacement of University property on loan, or non-repayment of cash advances or loans, or violation of residence license agreement, the University shall not permit a student to register for further courses, and shall not issue an official transcript. The above prohibitions shall be in force until such time as indebtedness to the University has been cleared to the satisfaction of the University.

35. Grading

Each course taken for academic credit is assigned a final grade at the end of the semester. The final grade for each course will be indicated by a letter grade and a grade point on the student's transcript.

Grade Point Average: Grade Point Average (GPA) is a method of expressing a student's academic performance as a numerical value. Each letter grade is assigned a numerical equivalent, which is then multiplied by the credit hour value assigned to the course to produce the grade point.

Semester Grade Point Average: Semester Grade Point Average (SGPA) is computed by dividing the total number of grade points earned by the total number of credit hours taken in a semester. See Academic Regulation 31 (Repeating Courses) for the treatment of repeated courses in GPA calculations.

Cumulative Grade Point Average: The UNBC Cumulative Grade Point Average (CGPA) expresses performance as a numerical average for all UNBC courses for all semesters completed. The CGPA is calculated by dividing the total number of grade points earned to date by the total number of credit hours undertaken to date. (Letter grades of P or W are not assigned a numerical value and are not used in calculating the grade point average.) See Academic Regulation 31 (Repeating Courses) for the treatment of repeated courses in GPA calculations. The CGPA provides the numerical value used to determine good academic standing or academic probation.

36. International Exchange

In order to be eligible to participate in an international exchange program, UNBC students must have either a UNBC cumulative GPA higher than 2.67, or a GPA in the previous two semesters of at least 18 credit hours higher than 3.00.

37. International Exchange Grading

In the case of a formal exchange, the grades from an exchange university are reported using a PASS/FAIL grading system and are not counted towards a student's UNBC SGPA or CGPA.

38. Honours and Distinction

Candidates for undergraduate degrees whose CPGA at graduation is 3.00 or better will graduate:

> 4.00	With Distinction
> 3.67 to < 4.0	First Class Honours
> 3.50 to < 3.67	Upper Second Class
> 3.00 to < 3.50	Second Class Honours

Candidates for the joint (with UBC) Bachelor of Applied Science in Environmental Engineering will be granted a degree With Distinction if they achieve an overall GPA of at least 3.67 on all 200-level and higher courses while registered in the BASc program.

Calculation of Grade Point Average

The following is an example of how a student's GPA is calculated at the end of a semester:

1.	ENGL 201-3	В	3.0	3 credit hours x 3.0	=	9.00
2.	ENGL 212-3	B-	2.67	3 credit hours x 2.67	=	8.01
3.	BIOL 101-4	C+	2.33	4 credit hours x 2.33	=	9.32
4.	HIST 302-3	A+	4.33	3 credit hours x 4.33	=	12.99
5.	PSYC 301-3	W	_			_
		Total		13 credit hours		39.32
		Semester GPA: 39.3	32/13 = 3.02			

Undergraduate Grading System

UNBC Grade Point 4.33	Letter A+	Percentage 90 -100%	Definition/Standing
4.00	Α	85-89.9%	Excellent
3.67	A-	80-84.9%	
3.33	B+	77-79.9%	
3.00	В	73-76.9%	Good
2.67	B-	70-72.9%	
2.33	C+	67-69.9%	Satisfactory
2.00	C	63-66.9%	Odlisidetory
1.67	C-	60-62.9%	Marginal
1.33	D+	57-59.9%	
1.00	D	53-56.9%	
0.67	D-	50-52.9%	
0.00	F	0 -49.9%	Failure

The following are not included in academic average:

Р	Passing grade	credit awarded
AEG	Aegrotat standing	credit awarded
DEF	Deferred grade	no credit awarded
W	Withdrawn	no credit awarded
WE	Withdrawn under	no credit awarded
	extenuating	
	circumstances	
AUD	Audit of course	no credit awarded
INP	Course or Thesis work	in progress
NGR	No grade reported	

39. Examinations

- No final examinations may count for more than 50% (fifty per cent) of the total course marks.
- b. With the exception of laboratory, clinical or practicum-based final examinations, tests worth, in aggregate, more than 10% of the final grade must not be administered during the final week of classes. Major papers or projects must not be newly assigned during the last two weeks of classes.
- c. Program Chairs may make exceptions to parts a) or b) of this policy in extraordinary cases. Such exception must be made before the first day of scheduled classes and have the approval of the Dean.
- d. Students are required to write no more than two final exams in any one 24 hour period. When a course has a final examination, it must be administered during the scheduled examination period.
- e. Final exams are no longer than three hours in duration. Exceptions must be approved by the program chair.

40. Conduct in Examinations

Students must present appropriate identification upon entering the examination room. Appropriate identification is defined as a UNBC student card and/or some other form of photo identification acceptable to the proctor. The following regulations apply to the conduct of examinations:

a. Books, papers, or other materials or devices must not be in the possession of the student during an exam except by the express permission of the examiner. Specifically, without such permission no laptop computers, mobile phone sets, handheld electronic devices or the like may be in possession of the student in the examination room (see Undergraduate Academic Regulation 45.b).

- b. No candidate is permitted to enter the examination room more than 30 minutes after the beginning of the examination, or permitted to leave within 30 minutes after the examination has started.
- Candidates must not communicate in any way with other candidates in the examination room.
- Candidates must not leave their seats, except when granted permission by the proctor.
- Candidates must turn in all materials, including rough work, upon leaving the examination room.
- Food and beverages other than water are not permitted in the examination room.

41. Student Access to Final Examinations

The instructor will, on request by a student, informally review the final examination with the student after the semester grade has been released.

Final examinations will be retained by the instructor for a period of one year after the examination period, after which time they may be shredded or destroyed by other acceptable means.

42. Religious Holidays/Examination Schedule

In some instances, students may find themselves, for religious reasons, unable to write a final examination on a scheduled day. If the final examination cannot be rescheduled to avoid the conflict, the student concerned shall be evaluated by other means, which may include another examination scheduled at a different time. Students must complete the appropriate form (available from the Office of the Registrar) and notify their instructors of a conflict at least two weeks prior to the examination period.

43. Final Examinations Missed

Satisfactory explanation, with supporting documentation as appropriate, for any final examination missed must be made by the student or designate to the Office of the Registrar within 48 hours from the time the examination was written.

Within 48 hours of receiving a submission, the Registrar or designate may advise the Program under which the course is offered to arrange the writing of a special examination in the case of an examination which was missed.

Normally, for explanations of sickness, a doctor's certification is required.

44. Deferred Examinations and Grades

- Students may request a deferred examination or deferred status to complete required term work if medical or compassionate reasons prevent attendance at an examination or completion of assignments. Submission of a deferred (DEF) grade by the instructor and Program Chair, should be received by the Office of the Registrar without exception before the date of the final examination. After that date, the Undergraduate Academic Regulation 43 (Final Examinations Missed) applies. Forms for deferred status are available to Faculty from the Office of the Registrar. If a student is granted a deferral, the exam must be written or the assignment(s) completed and graded before the last day of classes in the following semester, unless prior arrangements have been made with the instructor and notification has been submitted to the Office of the Registrar. If a student is granted a deferral but does not complete the required work, or does not appear for the examination, a grade of F will be assigned. If a student's request for deferred status is refused. the instructor will submit a final grade.
- Effective September 2004, students are not permitted to graduate with deferred grades (DEF) remaining on their transcript (See Academic Regulation 33 (Graduation Constraints).

45. Academic Offenses

Any conduct that violates the standards of the University as set out in the Undergraduate University Calendar, particularly those related to academic honesty, is a serious offense. The formal processes set out in these Regulations are to be followed. The Senate Committee on Academic Appeals provides for impartial review of decisions made at lower levels as defined in these Regulations. Minimum sanctions for an academic offense includes reprimands and reduction of grades; the maximum sanction is dismissal from the student's academic program or suspension from the University (see Academic Regulation 47 (Academic Sanctions)). Such offenses include, but are not limited to the following:

- a. Plagiarism: Plagiarism occurs when a student submits or presents work of another person in such a manner as to lead the reader to believe that it is the student's original work; selfplagiarism is the submission of work previously submitted for academic credit without prior written and signed approval of the current course instructor.
- b. Cheating: Cheating takes numerous forms and includes, but is not limited to, the following: copying from another student's work or allowing another student to copy from one's own work; obtaining a copy of an examination before it is officially available; misrepresenting or falsifying references, citations, or sources of information; knowingly recording or reporting false or invented empirical or statistical data; and possession of notes, books, diagrams or other aids during examinations that are not authorized by the examiner (See Regulation 39(a)).
- Submitting False Records: Knowingly submitting false medical or criminal records, transcripts, or other such certificates or information.
- d. Withholding Records: Non-disclosure of previous attendance at a post-secondary institution, and of the transcript of record pertaining thereto, or of other documentation required by the University.
- e. Misrepresenting One's Own Identity: Impersonation or the imitation of a student in class, in a test or examination or class assignment. Both the impersonator and the individual impersonated may be charged.
- Falsification of Results: The falsification of laboratory and research results.
- g. Submission of False Information: The submission of false or misrepresented information on any form used by the University or an agent thereof.
- h. Aiding or Abetting any of the above academic offences.

46. Procedure on Suspicion of an Academic Offence

- a. An instructor, invigilator or administrator who suspects plagiarism, cheating, or any other academic offence, and has evidence to support the accusation, will review the contents of the student's file in the Office of the Registrar to determine whether the record indicates a prior academic offense, and will obtain a copy of the UNBC Report Form for Academic Misconduct. The instructor or administrator then will contact the student to inform the student fully of the offence and to present the evidence for it. The student may request that a third party (for example another faculty member, a teaching assistant, a staff member, or the ombudsperson) be present at this or any subsequent meetings.
- b. If the issue is resolved at this level, the faculty member or administrator will fill in Part A of the UNBC Report Form for Academic Misconduct and forward it to the Office of the Registrar to be placed in the student's file. Discussions with the Chair or Dean may be held at the request of either the faculty member or the student, and the Dean may also be brought in at any stage if requested by either party.

Regulations and Policies

- c. If the matter is not resolved between the student and faculty member or administrator, it will be discussed by the student, faculty member, and the Chair of the program involved or, in the case of professional programs that have their own internal appeals committees, reviewed by those committees. After these discussions or reviews, the Chair and Dean will complete Parts B and C respectively of the Report Form for Academic Misconduct. Whether or not a penalty is imposed, a copy of the Report Form will be placed in the student's file in the Office of the Registrar, and copied to the student.
- d. The student may appeal any lower level decision to the Senate Committee on Academic Appeals (see Academic Regulations 50, 51).

47. Academic Sanctions

"Every student accepted for registration at the University of Northern British Columbia shall be deemed to have agreed to be bound by the regulations and policies of the University and of the Program in which that student is enrolled" (Academic Calendar notices, p.1). A student not adhering to the University's Regulations and Policies shall be subject to academic sanctions.

A range of penalties is described below:

- a. Reprimand: This is a written warning to a student from the Instructor, Program Chair or the Dean of the College that the student's behaviour is considered unacceptable to the University and that a record of the unacceptable behaviour has been placed in the student's file in the Office of the Registrar.
- b. Reduction of Grade: A reduction of grade, including assigning a failing grade, may be applied to an examination, test, or assignment or course to which an offense is relevant and will be decided upon by the instructor, in consultation as may be appropriate with the Chair or Dean.
- c. Suspension: A student's Dean may recommend suspension, either for a specified period or indefinitely, to the President. On the recommendation of the Dean, the President may suspend a student from the University, either for a specified period or indefinitely. Prior to the President's decision becoming final, the student will be informed in writing of the recommendation. The student will be given 15 working days following such notification to lodge an appeal before the President's final decision becomes effective. Any such appeal must be made in writing to the Registrar and will be reviewed by the Senate Committee on Academic Appeals. Once the matter of suspension is final and upheld, a permanent notation will be placed on the student's transcript.

48. Academic Standards - Definition

Students are expected to meet the necessary minimum standards for performance while attending UNBC. Those who fail to meet the minimum standard will be placed on academic probation. The minimum standard is defined as an academic average on nine or more credit hours of UNBC course work that produces a cumulative grade point average (CGPA) of at least 2.00.

49. Conditions of Academic Standing

a. Academic Probation: "Academic Probation" constitutes a warning to a student that the student's academic performance has been at a level which, if continued, could disqualify the student from graduation; and further that continued performance below the required standard could lead to requirement to withdraw from the University on academic grounds.

Students may be placed on Academic Probation under the following conditions:

- Admission to the University on the basis of an unproven or unsuccessful previous university record.
- ii. A UNBC cumulative GPA of less than 2.00 after attempting nine credits of course work.

Letters of permission will not be given to students on academic probation.

Students who have been placed on Academic Probation who achieve a Semester GPA (SGPA) of 2.00 or greater in subsequent semesters will be allowed to continue their studies at UNBC while on Academic Probation. Students are considered to have returned to good academic standing once their Cumulative GPA (CGPA) is 2.00 or greater. Students are not permitted to graduate while on Academic Probation (see Academic Regulation 33 (Graduation Constraints)).

- b. **Requirement to Withdraw:** The following circumstances may result in a requirement to withdraw from UNBC. These are:
 - Discovery that required documentation for admission was withheld, by the student, from the University;
 - ii. Failure to pay for tuition or university services;
 - iii. Failure to achieve an SGPA of 2.00 or higher after the completion of 30 credits while on Academic Probation.

 Normally, in this case, a requirement to withdraw from the University is for three semesters (one full calendar year);
 - iv. A decision by the President of the University that the suspension of a student, for reasons of unsatisfactory conduct, unsatisfactory academic performance, or otherwise reasons clearly indicates that withdrawal from UNBC is in the best interest of the University.

Academic credit earned at another post-secondary institution during the requirement to withdraw period will be considered for transfer to UNBC, providing:

- i. Courses meet the University's policy on transfer credit
- ii. Courses do not duplicate successful or unsuccessful course work previously completed at UNBC.

It is recommended that students who are required to withdraw, and plan to return to UNBC at a later date, meet with a Student Advisor to discuss their academic standing and course plan prior to enrolling in courses at another post-secondary institution.

In order to apply for re-admission to the University, students must submit an Application for Admission/Re-admission to the Office of the Registrar. Students must provide, with the application, a letter to the Registrar, stating their rationale for wishing to return to studies at UNBC and documenting any work completed or experience gained which would better qualify them to complete studies at UNBC successfully.

Students who are permitted to return to studies at UNBC, return on academic probation, and are subject to the University's policy on academic standing and continuance found in the current calendar.

c. Second Requirement to Withdraw: Students Required to Withdraw from the University a second time normally will not be considered for readmission for at least two full calendar years following the Requirement to Withdraw. Re-admission will only be on presentation of compelling evidence that the student is both able and prepared to succeed in University studies.

50. Appeals Process

All students have the natural and reasonable right to appeal grades given during the term, the final grade of a course, and other academic policies and decisions of the University. The Senate Committee on Academic Appeals is the final adjudicator in such matters. All formal appeals must be made through the Registrar, in writing and with necessary documentation, within 15 working days of the receipt of the decision in question. The student's written appeal must state clearly the decision being appealed, the reason(s) why the decision is considered to be unfair, what decision would be considered fair, and why it would be fair. It is incumbent upon the student to advise the University, via the Office of the Registrar, of their current contact information. All written appeals to the Senate Committee on Academic Appeals should indicate whether an in-person hearing is being requested. Otherwise, cases are adjudicated on the basis of the written submissions.

51. Senate Committee on Academic Appeals: Procedures

The Senate Committee on Academic Appeals follows the principles of natural justice. That is, its procedures are fair and open, appropriate to the matter under consideration, and provide the opportunity for those affected to put forward their views fully for consideration by the Committee. Following these principles, the Committee develops its own procedures and practices to conduct appeals and is not constrained by strict rules of procedure and evidence.

A quorum consists of a majority of voting members, including at least one student member and two faculty members. No faculty or student committee member with previous direct involvement in the case may hear the appeal. The appellant has the right to challenge the neutrality of any member of the Committee scheduled to hear his/her appeal. The Chair, with the advice of the Committee, will rule on the validity of the challenge.

If the appellant requests an in-person hearing, the interested parties (e.g., the course Instructor(s), Chair and/or Dean) will be notified and may also appear at the appeal, when available. Appeals shall be based on the appellant's written submission (all relevant evidence and documentation related to the matter which is under appeal, and all relevant information contained in the student record). New evidence cannot be presented at the hearing.

If the appellant asks to be present at the hearing yet fails to appear before the Committee on the appointed day and time, the Committee may, without further notice, proceed to hear the appeal based on the written submission. If there are compassionate or medical grounds for nonappearance, the Chair or the Secretary to the Committee must be notified immediately. The Chair will determine the acceptability of these grounds and whether the appeal hearing should be postponed.

All hearings are held in the strictest confidence and normally are attended only by members of the Committee and the parties to the particular appeal. Upon written notification to the Senate Committee on Academic Appeals, appellants may be accompanied by an additional party for the purpose of personal support.

Neither the appellant nor the University shall have the right to representation by legal counsel during appeal hearings except by permission of the committee Chair. The Chair, at the Chair's sole discretion, may allow legal representation where he or she judges the circumstances of the case to be exceptional.

The Secretary to Senate, in consultation with the Committee Chair as appropriate, reviews each request to hear an appeal before any hearing or adjudication. This review is intended to ensure that the nature of the appeal is consistent with the mandate of the Committee and to ensure that the appeal is both valid and could not be resolved by other means. In some instances the review may lead to a reversal of the decision before review, while in other instances it may indicate there are insufficient grounds for an appeal or that further documentation is required. In all cases, however, any decision to hear or not to hear an appeal rests with the Committee.

The Senate Committee on Academic Appeals reviews decisions made at lower levels when requested to do so by the appellant. Normally it rules in two areas. It considers whether appropriate and fair adjudication was exercised in respect of a case and, where it concludes that there was unfairness, it may direct a readjudication using a procedure that it prescribes as being appropriate and fair. It considers whether the penalty assessed was consistent with University Regulations and practice and was not pernicious and, where it concludes that there was a lack of consistency or an unreasonable response, it may state its concerns clearly and direct a reconsideration. The Committee may act, whether a reconsideration has been directed or not, to overturn or to support a decision. Whatever the matter under consideration, the Committee and all parties to the appeal are provided by the Registrar with the same information, sufficient to permit a meaningful hearing. The Committee maintains a record of its deliberations and provides the reason(s) for its decisions.

52. Appeal of Term Grades While Course is in Progress

Students who have reason to believe their term grade, while a course is in progress, is inaccurate should meet with their course instructor immediately. If both the instructor and the student agree, on the basis of an informal review, the matter is thereby concluded and a change of grade is submitted if necessary.

Students who wish to appeal grades other than final grades, formally, should initiate the following process:

- The student obtains an Academic Appeals Form from the Office of the Registrar and submits it to the Program Chair.
- The Chair meets the instructor(s) on the matter, obtains the instructor's(s') comments and adds the Chair's comments.
- If no resolution favourable to the student is reached within seven working days, the Chair, without delay, submits the form to the Dean.
- d. If no resolution acceptable to the student is reached within seven working days, the Dean, without delay, submits the form to the Registrar for advancement to the Senate Committee on Academic Appeals.
- At any stage in the process, the student may choose to withdraw the appeal by notifying the Registrar.

An appeal may result in a higher, equal or lower grade. The final recourse for all appeals is the Senate Committee on Academic Appeals.

53. Appeal of Final Grade

Students who have reason to believe their final grade in a course, once released by the Office of the Registrar, is inaccurate should meet with their course instructor immediately, if possible (see Academic Regulation 41). If instructor and student agree, on the basis of an informal review, the Office of the Registrar is advised of a grade change and the matter is thereby concluded.

Students who wish to appeal their final grade, formally, should initiate the following process:

- a. The student obtains an Academic Appeals Form from the Office of the Registrar and submits it to the Program Chair.
- The Chair meets the instructor(s) on the matter, obtains the instructor's(s') comments and adds the Chair's comments.
- c. If no resolution favourable to the student is reached within seven working days, the Chair, without delay, submits the form to the Dean.
- d. If no resolution acceptable to the student is reached within seven working days, the Dean, without delay, submits the form to the Registrar for advancement to the Senate Committee on Academic Appeals.
- At any stage in the process, the student may choose to withdraw the appeal by notifying the Registrar.

An appeal may result in a higher, equal or lower grade. The final recourse for all appeals is the Senate Committee on Academic Appeals. Evaluation of a student's academic performance for continued enrolment will not be done prior to the completion of a grade appeal process, if the grade in question is pertinent to the said evaluation.

54. Appeal Procedure on Requirement to Withdraw

"Requirement to Withdraw" on academic grounds is a decision under the purview of the student's College Dean. Therefore, a student's first recourse by way of appeal is the Dean. If the Dean agrees to rescind the requirement, the Dean informs the Office of the Registrar and no further action by the student is necessary.

Otherwise, any academic appeal on a requirement to withdraw must be made in writing to the Registrar and will be reviewed by the Senate Committee on Academic Appeals.

55. University Closure/Weather

On rare occasions, the President (or designate) may elect to close the University due to inclement weather or other human or natural circumstance. In such circumstances, classes and examinations will be formally cancelled and will be rescheduled. Assignments due on the date of the closure must be submitted on the next day that the University is open.

Academic Dates

Academic Year

The academic year extends from September 1 to August 31. Most of the University course offerings are delivered during the day, and courses are available in the evening during the September and January Semesters. Each 12-month academic year begins in September and is composed of the following semesters:

- September Semester September to December
- January Semester January to April
- May Semester May to August

2017 – 2018 Semester Dates

2017 September Semester

September

4	Monday	Labour Day, University closed
5	Tuesday	Orientation Day
6	Wednesday	First day of classes, September Semester
		All September Semester fees due
20	Wednesday	Last day to add/drop September Semester
		courses without financial penalty
		Last day to change September Semester
		courses from audit to credit and credit to

October

9	Monday	Thanksgiving Day, University closed
26	Thursday	Last day to withdraw from September
		Semester courses without academic
		penalty, 50% tuition refund

audit

November

11	Saturday	Remembrance Day
13	Monday	University closed

December

DUGGIIIDG	•1	
1	Friday	Last day of classes
5	Tuesday	First day of exam period
15	Friday	Last day of exam period
16	Saturday	Maintenance Shutdown,
		Prince George Campus closed
25	Monday	Christmas Day, University Closed
26	Tuesday	Boxing Day, University Closed
27-29	Tues to Fri	University closed

2018 January Semester

January

nuary		
1	Monday	New Year's Day, University closed
2	Tuesday	Orientation Day, University open
3	Wednesday	First day of classes
		All January Semester fees due
17	Wednesday	Last day to add/drop January Semester courses without financial penalty Last day to change January Semester courses from audit to credit and credit to audit

Family Day, University closed

Mid-Semester Break

February 12

13-16

Monday

Tues. to Fri.

		(no elegano February 10, 10)
		(no classes February 13-16)
22	Thursday	Last day to withdraw from January
		Semester courses without academic
		penalty, 50% tuition refund
March		
30	Friday	Good Friday, University closed
April		
1	Sunday	Easter Sunday, University closed
2	Monday	Easter Monday, University closed
3	Tuesday	Registration Opens for 2017-2018
		Academic Year
6	Friday	Last day of classes
10	Tuesday	First day of exam period
21	Saturday	Last day of exam period
۷.	outurday	Last day or oxam ponda

2018 May Semester

and 2018 Spring Intersession

May		
7	Monday	First day of classes, May Semester and Spring Intersession All May Semester fees due, including Spring/Summer Intersessions
11	Friday	*Last day to add/drop Spring Intersession courses without financial penalty
21	Monday	Victoria Day, University closed
22	Tuesday	Last day to add/drop May Semester courses without financial penalty Last day to change May Semester courses from audit to credit and credit to audit
25	Friday	Convocation *Last day to withdraw from Spring Intersession courses without academic penalty, 50% tuition refund
June		
15	Friday	Last day of classes, Spring Intersession
18	Monday	First day of exam period, Spring Intersession
22	Friday	Last day of exam period, Spring Intersession
23	Saturday	Maintenance shutdown, Prince George Campus Closed
25- 29	Mon. To Fri.	Summer break begins for May Semester courses (no classes June 25 - June 29)
26	Tuesday	Last day to withdraw from May Semester courses without academic penalty, 50% tuition refund

2018 May Semester continued

and 2018 Summer Intersession

July		
1	Sunday	Canada Day, University closed
2	Monday	University closed
4	Wednesday	First Day of classes, Summer Intersession
10	Tuesday	*Last day to add/drop Summer Intersession courses without financial penalty
23	Monday	Last day to withdraw from Summer Intersession courses without academic penalty, 50% tuition refund
August		
6	Monday	BC Day, University closed
10	Friday	Last day of classes, May Semester and Summer Intersession
13	Monday	First day of exam period, May Semester and Summer Intersession
17	Friday	Last day of exam period, May Semester and Summer Intersession

^{*} For condensed courses, the last day to withdraw (50% tuition refund) is indicated in the course-specific documentation.

2017 – 2018 Senate Dates

September 27, 2017 January 24, 2018 October 25, 2017 February 28, 2018 November 22, 2017 March 28, 2018 April 25, 2018

May 23, 2018 June 27, 2018 August 22, 2018

2017 – 2018 Undergraduate Student Deadline Dates

2017 September Semester

Course Registration Deadlines

September 20 Last day to add/drop September Semester courses

without financial penalty

Last day to change September Semester courses from

audit to credit and credit to audit status

October 26 Last day to withdraw from September Semester

courses without academic penalty

Fee & Refund Deadlines

September 6 $\;$ All September Semester tuition & student fees due

October 26 Deadline for 50% tuition refund for September

Semester course withdrawals

Application Deadline

November 1 Deadline to apply for January Semester undergraduate

studies

Graduation & Convocation Deadline

October 31 Undergraduate Application to graduate and attend

Convocation

2018 January Semester

Course Registration Deadlines

January 17 Last day to add/drop January Semester courses

without financial penalty

Last day to change January Semester courses from audit to credit and credit to audit status

February 22 Last day to withdraw from January Semester

courses without academic penalty

Fee & Refund Deadlines

January 3 All January Semester tuition & student fees due

February 22 Deadline for 50% tuition refund for January

Semester course withdrawals

Application Deadlines

February 1 Deadline to apply for the Bachelor of Social Work

Program for the September Semester

Deadline to apply for the Bachelor of Health Science

Program for the September Semester

March 1 Deadline to apply for the May and September

Semesters for undergraduate studies

International student deadline to apply for the May and

September Semesters

Deadline to apply for the Environmental Engineering

Program for the September Semester
Application deadline for UNBC administered

scholarships and bursaries

March 15 Deadline to apply for the Bachelor of Education

program for the September Semester

March 31 Deadline to apply to the College of New Caledonia

and Northwest Community College for the Northern Collaborative Baccalaureate Nursing Program for the

September Semester

Scholarship & Bursary Deadline

March 1 Deadline to apply for UNBC administered

scholarships & bursaries

2018 May Semester

Course Registration Deadlines

May 11 Last day to add/drop Spring Intersession courses

without financial penalty

May 22 Last day to add/drop May Semester courses without

financial penalty

Last day to change May Semester courses from audit

to credit and credit to audit status

May 25 Last day to withdraw from Spring Intersession courses

without academic penalty

June 26 Last day to withdraw from May Semester courses

without academic penalty

July 10 Last day to add/drop Summer Intersession courses

without financial penalty

July 23 Last day to withdraw from Summer Intersession

courses without academic penalty

Fee and Refund Deadlines

May 7 All May Semester, Spring Intersession, & Summer

Intersession tuition & student fees due

May 25 Deadline for 50% tuition refund for Spring Intersession

course withdrawals

June 26 Deadline for 50% tuition refund for May Semester

course withdrawals

July 23 Deadline for 50% tuition refund for Summer

Intersession course withdrawals

Application Deadlines

June 1 International Students deadline to apply for the

January Semester

Deadline to apply for the Northern Advancement

Program for the September Semester

Student Loans Deadline

June 30 Recommended deadline to apply for the BC

Student Assistance Program (BC Student Loans)

^{*} For condensed courses, the add/drop dates and last day to withdraw (50% tuition refund) are indicated in the course-specific

Programs

Co-operative Education

The Co-operative Education program is based on the principle of integrating a student's academic program with practical work experiences. This principle normally is achieved through an alternating sequence of four month work and study semesters. Recent introductions of parallel and internship co-op models have broadened student and employer opportunities with the possibility of longer work term experiences. This 'hands-on' approach to education extends the learning process beyond the limits of the classroom and into the working world. The Co-op Education program holds many advantages for students, employers and the University. For example, Co-op students are likely to attain higher levels of satisfaction regarding their education, and have a much higher probability of securing relevant, permanent employment immediately after graduation. Employers benefit from hiring bright, capable, highly motivated students who can fill temporary job openings, complete projects, free permanent staff for other tasks, ease the load during a busy season, and potentially fill permanent positions after graduation.

The number of jobs available for Co-op students will vary from semester to semester. Because of this, students cannot be guaranteed Co-op positions.

Admission to the Program

Intake into the Co-operative Education program occurs once throughout the academic year. Students planning to enter the Co-op program should contact the Student Career Centre and attend information sessions in the month of October.

To qualify and continue in the Co-operative Education option of their degree, a student must:

- be enrolled full time (9 credit hours);
- have a minimum cumulative grade point average of 2.50 with normally no grade lower than D;
- have completed 30 credit hours before beginning the first Co-op Education work term semester.

Students who are required to withdraw from Co-op due to their academic standing may re-apply for admission to the Co-op program based upon re-qualification.

Transfer students should complete a study semester before going out on a work term semester; however, they are encouraged to apply to the program in that semester. Students are normally required to successfully complete three work term semesters. Those students transferring from an approved Co-op program elsewhere and who have successfully completed a work term semester may be exempt from their first and second work term semesters at UNBC (refer to Co-operative Education Transferable Work Terms below). Students who complete the required work term semesters will receive a Co-op designation on their degree.

Students may experience their work term semesters in either the September, January or May semesters. Not all work semesters may be done in the Summer Semester with normally at least one in the September Semester and one in the January Semester. Students must end the Co-operative Education program on an academic term prior to graduation.

Co-operative Education Transferable Work Terms

Co-operative Education Work Terms successfully completed at a British Columbia post-secondary institution will be eligible for transfer credit, on an individual basis, if they meet the following requirements:

- The student must be accepted into the UNBC Co-op Education program and apply, in writing, to receive transfer of work terms.
- The program in which the work term(s) was undertaken is provincially approved under the criteria of the Accountability Council of Co-operative Education of BC, or is nationally approved under the criteria of the Canadian Association for Co-operative Education.
- The work term(s) is officially recognized, i.e., noted on the transcript, by the institution where the work term originated.
- The credit for the work term(s) was granted for work experience typical of the same discipline into which the student is transferring.

Co-operative Education Work Term Credit Challenge

UNBC Co-op Education allows students to challenge a Work Term on the basis of prior, relevant and satisfactory work experience. Students should discuss any potential challenge with the appropriate Co-ordinator for their major. Work Term Challenges are subject to the following:

- To begin a Work Term Challenge, an Application for Course Challenge form must be initiated with the student's Co-ordinator by December 1 in the September term that the student applies to the Co-operative Education option of their program.
- The UNBC Course Challenge fee will be assessed with the initiation of the Work Term Challenge forms. Current course challenge fees are listed in the UNBC calendar.
- The Co-ordinator will assess the Work Term Challenge application and provide recommendations to the Director.
- Applicants will be advised of the decision within two weeks of the submission.
- Work Term credit by challenge is limited to the first two Work Term courses within the major.
- Assessment of the Work Term Challenge will be carried out by the Student Career Centre based on the following:

Programs: Co-operative Education, Integrated Analytical Skills & Knowledge

- An aggregate of 560 hours (minimum) relevant paid work experience not previously counted toward Work Term credit, practicum, internship and similar options.
- Verification required of employment and evaluation of performance from the employer(s).
- Job descriptions outlining prior work experience, providing evidence that the student has acquired professional and personal knowledge and skills appropriate to the discipline or interdisciplinary field.
- A portfolio appropriate to the discipline or interdisciplinary field which meets UNBC Co-op Education Work Term guidelines.
- Once the challenge is approved, the result will be entered on the student's academic record on a pass or fail basis.

Parallel Co-op Work Terms

A parallel work term is a mode which allows students to complete a work term by working 15 to 20 hours per week for a period not to exceed eight months. For example, a student can now work half-time for eight months rather than full-time for four months. Students are expected to be enrolled in a minimum of two courses for each semester of a parallel work term.

Self-Developed Work Terms

The purpose of the new policy on self-developed work terms is to recognize that some students find some work placements as a result of their own contacts and networks. Students who wish to discuss whether a particular work term should be declared self-developed should talk to their coordinator before beginning that work term, and consult the co-op student handbook for the criteria used to define a self-developed work term.

The Co-op Process

Once a student is registered in the Co-op program, he or she has the opportunity of applying for positions with employers. Students are able to choose appropriate employers from posted job descriptions.

Students submit their resumés directly to employer(s) who choose a number of student applicants to interview. Once the interview process is complete, employers will make an offer to the successful applicant. Co-op students are expected to be flexible and responsive to appropriate work opportunities through BC and elsewhere.

Course descriptions for the Co-op option can be found in the UNBC course finder under the prefix COOP.

Canadian Association for Co-operative Education

Definition of Co-operative Education

UNBC is a member of the Canadian Association for Co-operative Education (CAFCE). A co-operative education program is a program that formally integrates a student's academic studies with work experience in co-operative employer organizations. The usual plan is for the student to alternate periods of experience in appropriate fields of business, industry, government, social services and the professions according to the following criteria.

- Each work situation is developed and/or approved by the co-operative educational institution as a suitable learning situation.
- The co-operative education student is engaged in productive work rather than merely observing.
- The co-operative education student received remuneration for the work performed.
- The co-operative education student's progress on the job is monitored by the co-operative education institution.
- The co-operative education student's performance on the job is supervised and evaluated by the student's employer.
- The time spent in periods of work experience must be at least thirty percent of the time spent in academic study.

For additional information, please visit the Student Career Centre website at www.unbc.ca/careercentre/.

Internship Courses

Internship courses are for those students who wish to have a more limited practical work experience and are unable to pursue the requirements of the Co-op program.

These courses differ from the Co-op program in that they are for one semester only. Specifically, the Internship courses will be one semester in length (four months) and will be for course credit rather than a paid employment experience. The employer, student and faculty supervisor will together agree on a term assignment. The student will be responsible for completing this assignment and defending it at the end of the term to the employer and faculty member.

Please note: the Internship courses are completely separate from the practica found in such programs as Nursing, Social Work and Education.

Integrated Analytical Skills & Knowledge Program (IASK)

The Integrated Analytical Skills & Knowledge Program at UNBC offers first-year students a rich and unique learning experience. Supported by seven academic units in the College of Arts, Social and Health Sciences (Anthropology, Economics, English, First Nations Studies, International Studies, Political Science, and Northern Studies), IASK delivers an integrated and interdisciplinary curriculum. IASK is cohort based: small groups of students will work together across courses. Intake for IASK is limited to 65 students who self-select to take part in the Program. IASK courses are accepted as meeting the degree requirements for the seven departments listed above.

The IASK is made up of 18 credit hours spread out over two terms. However, IASK does not occupy the full first year, as students can register for other courses and programs. That is, 9 credit hours are taken in the September Semester and 9 credit hours are taken in the January Semester. The courses blend content and teaching in ways that prepare students for success in university and beyond.

Curriculum in IASK focuses on learning outcomes and on content breadth across the Liberal Arts. Learning outcomes in IASK include the following: 1) Appropriate depth and breadth of knowledge and skills; 2) Analytical, critical, and creative thinking skills; 3) Liberality, inclusiveness, and an appreciation of diversity; 4) Personal growth, leadership skills and effective communication; 5) Life-long learning and intellectual development; 6) Engaged citizenship from the local to global levels.

IASK is recommended for students entering UNBC for the first time in one of the seven academic units listed above and who desire to work with a small group of students in a learning environment designed to facilitate student engagement with their peers. Through interaction with a small group of professors, this program will also assist first-year students to achieve improved academic performance throughout their four years at UNBC.

Curriculum:

•	IASK 101-3	Ways of Knowing
•	IASK 102-3	Waves of Globalization
•	IASK 103-3	Foundations of Learning I
•	IASK 104-3	Peoples, Places and Culture
•	IASK 105-3	What is Security?
•	IASK 106-3	Foundations of Learning II
•	IASK 107-3	Special Topics

International Exchange Program

Exchange programs between the University of Northern British Columbia and other institutions are defined by the terms of formal exchange agreements.

Students participating in exchange programs generally pay their tuition fees to UNBC, but select their courses at the university they will be visiting (this policy may vary with each exchange agreement). Grades are recorded at the receiving institution and forwarded to UNBC at the end of the semester or academic year. In the case of a formal exchange, grades will be reported by UNBC using a pass/fail grading system and will not be counted towards a student's cumulative grade point average.

Students are permitted to spend a maximum of one academic year* on a formal exchange. To participate in an international exchange, students must be nominated by UNBC and then wait for written approval from the receiving university. Students are required to register and pay their fees to UNBC before leaving on exchange. For more information on exchange opportunities and application procedures, contact International Exchange and Student Programs.

Study abroad where a formal agreement does not exist must be conducted by means of a letter of permission. In such cases tuition fees are paid to the receiving institution.

Selection Criteria for International Exchange Participants

The International Exchange and Student Programs Office has developed the following criteria to select UNBC students to participate in formal international exchanges. Criteria are outlined in descending order of importance.

Grade Point Average

- a minimum cumulative GPA of 2.67 is required.
- in exceptional circumstances, a minimum of 2.67 over the last 30 credit hours may be considered.
- in some cases a higher CGPA is required by the receiving institution.

Statement of Interest

- students are asked to submit a one- to two-page essay outlining the potential impact of participation in the exchange on their academic program and the expected contribution to their career plans.
- the quality of writing used in the statement of interest will also be considered.

Programs: International Exchange, Northern Advancement Program

Academic Study Plan

- the study plan should demonstrate that exchange participation will contribute to a student's degree program and/or elective requirements.
- students will complete a study plan for both their first and second choice of destinations, but they will only be required to obtain advisor/faculty signatures for their first choice at the initial state of the application process.

Letters of Academic Reference (3)

- applicants are asked to present two academic references and one personal reference.
- academic referees are asked to comment on the student's ability to succeed academically in an exchange.
- letters of reference should be from UNBC faculty members or the applicant must provide an explanation as to why another academic reference is valid.

Curriculum Vitae/Resumé

- the Committee will look for community and or campus participation.
- a résumé may also include information on cross-cultural interest and experience.
- relevant experience in the workforce or as a volunteer will also be taken into consideration.

Academic Year

- senior students will have had more time to develop academic maturity, and less opportunity to participate in exchanges in preceding years, and thus may be given priority over more junior students.
- students are permitted to submit application materials for exchange upon completion of at least one semester of study at UNBC. However, students must complete a minimum of 30 credit hours of academic study at UNBC before departing on an international exchange.

Special Criteria

- students should meet specific criteria for particular exchanges.
- applicants must meet language requirements for some exchanges.

Other UNBC Exchanges

- students may participate in a maximum of one academic year of exchange.
- all other things being equal, the committee will give priority to students who have not previously participated in a UNBC exchange program.

Additional Considerations

- only complete applications will be considered.
- an interview may be required for final selection.
- recent UNBC alumni may be considered as exchange participants if there are no qualified applicants among current UNBC students.

Budget Planner

 to assist students in planning their exchange, this form must be completed.

Northern Advancement Program

Introduction

The First Nations Centre, in keeping with its mandate to serve the native student population, offers a transition year of study in September of each year to students who would like to attend the University of Northern British Columbia. The program of study is important and relevant to students from both smaller rural communities and/or First Nations communities.

The University is situated in the territories of 78 Bands and 16 Tribal Councils as well as many urban First Nations organizations. The population of the region is about 300,000 of which First Nations people comprise approximately 10 percent.

The First Nations Centre does not limit its services to First Nations students. All programs and studies offered through the First Nations Centre are open to all UNBC students—native and non-native alike.

Students from smaller rural communities and First Nations students traditionally have had the most difficulty in adjusting to university in a larger centre because of cultural and sociological differences. The program is aimed at providing these students with assistance in making the transition to university. It will allow students to take full advantage of the educational opportunities offered, and prepare them for subsequent employment. The program will also ensure that a higher percentage of students will successfully complete their degrees as a result of their adjustment to, and enjoyment of, university life in a larger centre.

Program Description

The Northern Advancement program has been developed utilizing existing UNBC programs in the First Nations Centre in addition to the courses, ARTS 101-3 (Learning Strategies) and ARTS 102-3 (Research Writing). These new courses will provide a foundation for further study in a variety of fields at UNBC. The cornerstone of the Northern Advancement program is ARTS 101-3 and ARTS 102-3. The First Nations Centre programs have an emphasis on support services for students from smaller rural and First Nations communities.

ARTS 101-3 and ARTS 102-3 will provide an effective bridge for students entering UNBC. The transition and study skills component will begin two weeks prior to the start of classes and students will be required to attend a detailed orientation to the University that will include an off-campus two-day retreat. The courses will continue throughout the critical first year with students receiving instruction in developing skills in the following areas:

- library skills
- research skills
- text reading skills
- writing skills
- study skills
- public speaking
- group development
- stress management

- note taking skills
- assertiveness training
- career planning and
- test taking skills

In addition, since First Nations philosophy is one that is based on holistic learning, emphasis will be placed on developing support networks for personal growth as well as helping students in the program deal with personal issues that impede their academic success.

The delivery of ARTS 101-3 and ARTS 102-3 will be supported by the First Nations Centre. These include the assistance of First Nations community elders for cultural programming and personal guidance. In addition to elders, existing UNBC staff and faculty will be utilized to deliver specific components and courses of the program. A program co-ordinator from the First Nations Centre will coordinate the Northern Advancement Program, teach skill level sessions, and assist in community liaison and student recruitment.

Program Objectives

The program will provide a foundation for further study in a variety of fields at the University of Northern British Columbia. The cornerstone of the program is the emphasis on support services for First Nations students and students from smaller rural communities.

The objectives of this program are:

- to provide an orientation to university facilities and admission procedures
- to provide a supportive learning environment that facilitates the transition into university life
- to provide cultural activities which build self-esteem and respect for First Nations traditions and cultural values

Admission Requirements

Students will be required to complete a regular UNBC Admission Application form and indicate the Northern Advancement program as their academic intention.

Applicants must meet regular UNBC admission standards.

Each mature student application will be reviewed on its own merits. Mature applicants must:

- be permanent residents of British Columbia
- have been out of secondary school for at least three years and
- be at least 21 years of age on or before the first day of classes

Application Process

Students are encouraged to begin admission inquiries as soon as possible in the new calendar year.

The deadline for submission of applications, complete with all required documentation, for September registration is June 1. Complete files are given first preference for acceptance into the program. As spaces available in the program are limited, not all students who are eligible

will be admitted.

To be considered for the Northern Advancement program, students must also submit the following with their application form:

- one official transcript from high school and all post-secondary institutions attended (photocopies or facsimiles are not accepted as official);
- a letter of intent outlining their career goals and the importance of the Northern Advancement program in achieving those goals;
- a letter of support from a high school teacher and/or band administrator, education coordinator or sponsoring organization.

Once admitted to UNBC:

 students are required to attend a two-week orientation session prior to the first day of classes which includes an off-campus two-day retreat with staff. Course timetables will be provided during orientation week.

Course Requirements

Normally this is a maximum five year UNBC credit program (some students may choose to complete the degree in four years). The program is designed to facilitate 25 students per year. Northern Advancement program students are advised to complete nine to twelve credit hours in each of their first and second semesters as follows:

Semester One

ARTS 101-3 Learning Strategies

FNST 100-3 The Aboriginal Peoples of Canada

Elective (three credit hours)

Semester Two

ARTS 102-3 Research Writing
Electives (six to nine credit hours)

Northern Transitions Program (NTP)

Introduction

UNBC's Northern Transitions Program (NTP) is a holistic and supportive program that helps students prepare for and successfully navigate the transition to university studies. By offering courses that bridge gaps in student knowledge and experience, the NTP is a program for anyone who would benefit from a supportive transition into the role of a postsecondary student.

The NTP provides skills and knowledge in the first year of studies that subsequently allow students to complete degree programs. Throughout their critical first year, students will receive credit for courses in which they develop library skills, text reading skills, communication, exam-taking strategies and quantitative skills. This program has three main principles:

- To enhance learning, writing, communication, computer and other skills, which will improve success in a post-secondary institution;
- To enable students to explore various career options available through their educational achievements;
- To provide a supportive network and learning environment which will enhance personal development and academic success.

Courses and Semester Layout

The Northern Transitions Program was developed with existing UNBC courses to support students continuing into degrees of their choice. This program is cohort-based so only others in the NTP will be in the courses in order to build relationships and supports with fellow students. The courses will be enhanced by a bi-weekly talking circle with their Academic Learning Coach (ALC) to ensure that all aspects of student life are nurtured. The foci of these talking circles is on a wide range of topics from academics and support services to cultural support and wellness. This is not a standalone program so students are expected to apply to a UNBC program of choice in their first year of studies with the Northern Transitions Program. The program is designed to facilitate 20 students per year in each cohort.

Northern Transitions program students are required to complete 18 credit hours in their first and second semesters as follows:

Semester One

UNIV 101-3 Introduction to Higher Education ENGL 170-3 Writing and Communication Skills CPSC 150-3 Computer Applications

Semester Two

ARTS 102-3 Research Writing ENGL 120-3 Introduction to Canadian Native Literatures XMAT 161-1, 162-1, 163-1 Intermediate Algebra

Academic Learning Coach

The NTP provides support networks for personal growth that help students deal with issues that can impede their academic success. The Academic Learning Coach (ALC) is the students' key support. The ALC facilitates student engagement as students transition to university to ensure that their higher learning experience is a success. By providing personalized support, the coach guides students through course work in an advisory and supportive capacity. They assist students in their transition to a self-motivated and independent approach university level learning by being responsive to the particular needs that students may require for their future success in UNBC programs.

Admission Requirements

Students will be required to complete a regular UNBC Admission Application form and indicate the Northern Transitions Program as their academic intention.

Students are required to have completed Math 10 and preference will be given to students who have completed English 12 or English First Peoples 12.

Students who do not successfully meet the Cumulative GPA of 2.0 (C average) for this program are required to meet with their academic advisor and Academic Learning Coach to help assess goals and steps needed to move forward. Such students may be asked to take a short break from the University; however, this is not considered a penalty, as we want to provide students with options to ensure they are successful in their future educational endeavours.

Application Process

Students are encouraged to begin admission inquiries as soon as possible in the new calendar year. The deadline for submission of applications, complete with all required documentation, for September registration is May 31. Complete application files are given first preference for acceptance into the program. Not all students who are eligible are admitted as space in the program is limited.

To be considered for the Northern Transitions program, students must also submit the following with their application form:

- one official transcript from high school and all post-secondary institutions attended (photocopies or facsimiles are not accepted as official):
- a letter of intent outlining their career goals and the importance of the Northern Transitions program in achieving those goals;
- a letter of support from a high school teacher and/or band administrator, education coordinator or sponsoring organization.

Students who have submitted the the above mentioned documents and have met all entrance requirements are then scheduled for a personal interview to ensure suitability and preparedness for the

Northern Transitions Program.

Curriculum:

Northern Transitions program students are required to complete 18 credit hours in their first and second semesters as follows:

Semester One

UNIV 101-3 Introduction to Higher Education ENGL 170-3 Writing and Communication Skills CPSC 150-3 Computer Applications

Semester Two

ARTS 102-3 Research Writing ENGL 120-3 Introduction to Canadian Native Literatures XMAT 161-1, 162-1, 163-1 Intermediate Algebra

Student Success Initiative

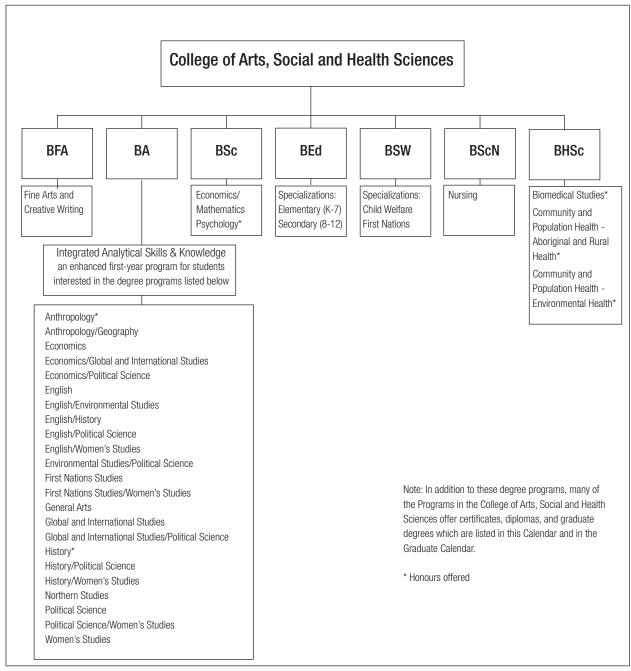
University 101-3 (Introduction to Higher Education) is a three-credit, multidisciplinary elective that is an appropriate foundation course for most university degree programs. It offers an introduction to the university and its many services, an explanation of the methods of academic inquiry employed in the various disciplines, and an opportunity to learn and practice the study skills and learning strategies that are required for academic success. Students are given opportunities to use the information from this course to improve their academic performance in the other courses they are studying.

University 101-3 is most appropriate for students who are in their first year of study at a university, including those who have transferred from regional colleges. It is also appropriate for mature students who have been away from academic study for a period of time.

For additional information, see the description of the course that is located in the course description section of the Calendar under the title, UNIV 101-3.

Programs: Student Success

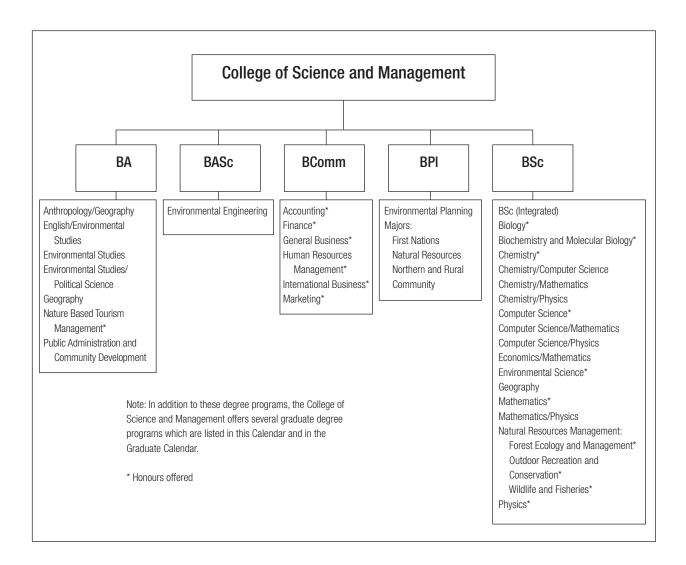
CASHS Academic Structure



College of Arts, Social and Health Sciences

The College of Arts, Social and Health Sciences (CASHS) includes the following Programs: Anthropology, Community Health Science, Disability Management, Economics, Education, English, First Nations Studies, Integrated Analytical Skills and Knowledge, Gender Studies, Global and International Studies, Health Sciences, History, Northern Studies, Nursing, Political Science, Psychology, Social Work, and Women's Studies. Through its teaching, research and service, the College actively promotes an understanding and appreciation of humanity, and the development of human resources in northern British Columbia. The College links northern BC to the world, and the world to northern BC. It is concerned with people, health, culture and values, and is committed to enhancing opportunities for individuals, building stronger, healthier communities, and improving quality of life.

CSAM Academic Structure



College of Science and Management

The College of Science and Management (CSAM) includes the following: BA degree with majors in: Anthropology and Geography, Geography, Environmental Studies, English and Environmental Studies, Environmental Studies and Political Science, Nature-Based Tourism Management, and Public Administration and Community Development; BASc degree with a major in: Environmental Engineering; BComm degree with majors in: Accounting, Finance, General Business, Human Resources Management, International Business, and Marketing; BPI degree with three environmental planning majors: First Nations Planning, Natural Resources Planning, Northern and Rural Community Planning; BSc (Integrated); BSc degree with majors in: Biology, Biochemistry and Molecular Biology, Chemistry, Chemistry and Computer Science, Chemistry and Mathematics, Chemistry and Physics, Computer Science, Geography, Mathematics, Mathematics, Natural Resource Management (Forest Ecology and Management), Natural Resource Management (Wildlife and Fisheries), and Physics.

Through research, teaching and outreach, the College aims to integrate the sciences, business administration, and management of natural resources and environments in ways that are recognized internationally for their roots in traditional and basic knowledge, their value to rural and remote communities, citizens and industries, and their global pertinence.

Academic Breadth Requirement

The University of Northern British Columbia encourages all of its students to embrace Academic Breadth in both knowledge and skills. The ideal graduate has demonstrated literacy and numeracy in study, has acquired breadth of knowledge outside the chosen discipline(s) of study, and has developed the habit of analytical and critical thought. Certain degree programs lend themselves to a formal requirement for Academic Breadth in study.

Students pursuing the degrees of BA, BComm, BHSc, and BSc* are required to meet the University's Breadth requirement, as set out below, as a condition of graduation. Each graduate is required to have completed successfully at least three credit hours from each of the four Quadrants, or to have transferred to UNBC from another institution acceptable course(s) such that the requirement is met.

This requirement applies to all students admitted or readmitted to UNBC for studies beginning with the September 2010 Semester or later.

At least 3 credit hours from:

Arts and Humanities

English (ENGL) History (HIST) Philosophy (PHIL) Women's Studies (WMST) At least 3 credit hours from:

Physical Science

Astronomy (ASTR) Chemistry (CHEM) Computer Science (CPSC) Mathematices (MATH) Physics (PHYS) Statistics (STAT)

At least 3 credit hours from:

Natural Science

Biology (BIOL)
Geography(GEOG)
Environmental Science (ENSC)
Environmental Studies (ENVS)
Forestry (FSTY)
Health and Human Science (HHSC)
Natural Resources Ecosystem Management (NREM)

At least 3 credit hours from:

Social Science

Anthropology (ANTH)
Commerce (COMM)
Economics (ECON)
Education (EDUC)
Environmental Planning (ENPL)
First Nations Studies (FNST)
Global and International Studies (INTS)
Northern Studies (NORS)
Outdoor Recreation and Tourism Managment (ORTM)
Political Science (POLS)
Psychology (PSYC)
Resource Recreation and Tourism (RRT)

*Students pursuing the degrees of BA Nature Based Tourism Management, BSc Biology and BSc Natural Resources Management (majors in Forest Ecology and Management, Outdoor Recreation and Conservation, and Wildlife and Fisheries) are exempt from this regulation because academic breadth has been incorporated within the curricula.

University Learning Outcomes

Graduates from the University of Northern British Columbia will demonstrate knowledge, skills and abilities appropriate for their degree in the following areas:

- Academic breadth and depth
- · Analytical, critical, and creative thought
- Liberality, inclusiveness and an appreciation of diversity
- Personal growth, leadership skills and effective communication
- Engaged citizenship from the local to the global level
- Lifelong learning and intellectual development

Each academic degree Program, individually, is structured so as to address these outcomes.

Associate Degrees

The Associate of Arts and Associate of Science Degrees are provincial credentials offered by many institutions in the BC Transfer System. The Associate Degree is designed to provide an educational experience that prepares students for life as an educated person, and to lay a solid foundation for further study.

The Associate Degree curriculum comprises two years of university level study in a variety of academic areas. Students are required to complete a broad range of course offerings balanced with in-depth study in specific disciplines. Since many students will continue their studies, the requirements are sufficiently flexible to enable students to complete the required prerequisites for upper level course work in their intended major.

Associate of Arts Degree

General Requirements

60 credit hours of first- and second-year courses. These must include a minimum of 18 credit hours in Arts at the second-year level taken in two or more subject areas.

Specific Requirements

- A. 6 credit hours in first-year English; and
- B. 9 credit hours in Science which shall include at least:
 - 3 credit hours in Mathematics, Computing Science or Statistics (Statistics courses taught in subject areas such as Business, Commerce, Economics, Psychology, etc. may also be used to meet this requirement);
 - 3 credit hours in a laboratory science, and
- C. 36 credit hours in Arts which shall include:
 - 6 credit hours in the Social Sciences;
 - 6 credit hours in Humanities (including the Creative and Performing Arts) other than English;
 - 24 additional credit hours in Arts, and
- D. 9 credit hours in Arts, Science, or other areas.

Associate of Science Degree

General Requirements

60 credit hours of first- and second-year courses. These must include a minimum of 18 credit hours in Science at the second-year level taken in two or more subject areas.

Specific Requirements

- A. 6 credit hours in first-year English; and
- 6 credit hours in Mathematics which shall include at least 3 credit hours in Calculus; and
- 36 credit hours in Science, which shall include at least 3 credit hours in a laboratory science; and
- 6 credit hours in Arts other than English (excluding Mathematics and laboratory-based science courses); and
- E. 6 credit hours in Arts, Science, or other areas.

Requirements for Both Associate Degrees

- All general and specific requirements must be met but an institution may set higher standards or additional requirements over and above these general and specific requirements.
- No course can be used to meet more than one of the specific requirements.
- An average overall grade of "C" (Cumulative GPA of 2.00 or its equivalent) calculated on all courses counting towards the Associate Degree must be achieved.
- 4. The number of credit hours awarded for any particular course are determined by the institution granting the Associate Degree. Although the number of credit hours awarded for any particular course may vary from institution to institution, it is expected that a student will have completed the equivalent of approximately twenty 3-credit-hour courses to fulfill the degree requirements.

BA (General)

The Bachelor of Arts (General) degree provides a broad education in the arts. Students are required to complete 120 credit hours including a minimum of 60 credit hours of upper-division course work. Ninety credit hours (including 30 credit hours at the upper level) must consist of Humanities and Social Science courses. For the purpose of the Bachelor of Arts (General) all courses from the following areas are considered Humanities or Social Science:

- Anthropology
- Arts
- Economics
- Education
- English
- Environmental Planning
- Environmental Studies
- First Nations Studies
- Global and International Studies
- History
- Northern Studies
- Philosophy
- Political Science
- Social Work
- Women's Studies

Coursework from Commerce, Geography, Health and Human Sciences, Natural Resources Management, Outdoor Recreation and Tourism Management and Psychology has been approved on a case by case basis depending on its content. Please contact your program advisor for a list of approved courses in these areas.

The minimum requirement for completion of the Bachelor of Arts (General) is 120 credit hours.

Program Requirements

Lower-Division Requirement

Students must complete 54 credit hours of lower-division (100 and 200) level course work.

Upper-Division Requirement

Students must complete a minimum of 60 credit hours of upperdivision (300 and 400 level) course work.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor Recommendation

Majors are not a component of the BA (General); however, students are strongly urged to include in their degree a completed minor from any of those programs within Arts or Social Sciences which offers a BA, or from the Philosophy or Russian Studies minor: i.e., from the following list:

- Anthropology (BA program)
- Economics (BA program)
- English (BA program)
- Environmental Studies (BA program)
- First Nations Studies (BA program)
- Geography (BA program)
- History (BA program)
- Global and International Studies (BA program)
- Northern Studies (BA program)
- Outdoor Recreation and Tourism Management (BA program)
- Philosophy (Minor program)
- Political Science (BA Program)
- Russian Studies (Minor program)
- Women's Studies (BA Program)

Alternatively, students may complete a minimum of 18 credit hours from any of these programs.

BSc (Integrated)

The Bachelor of Science (Integrated) provides a broad science base and integrates more than one area of study. The program is built upon a foundation of Biology, Chemistry, Mathematics and Physics. The program allows students to transfer into single-discipline science majors built on a foundation of Biology, Chemistry, Mathematics and Physics, or alternatively to switch from them to the BSc (Integrated). This program may be useful to students planning to pursue studies in various post-baccalaureate professional areas. Students should consult with the appropriate professional school(s) to ensure inclusion of all the required courses to be eligible for entry into programs in the desired professional area. Prior to starting the first year of study. students are strongly encouraged to consult with an appropriate Student Advisor for their anticipated Area of Specialization.

Areas of Specialization are:

- Biology, Ecology and Biochemistry & Molecular Biology
- 2. Chemistry, Biochemistry and Molecular Biology
- 3. Computer Science
- 4. Environmental and Earth Sciences
- 5. Geography (Science) and GIS
- 6. Mathematics and Statistics
- Natural Resources and Forestry 7.
- 8. **Physics**

Students enrolled in the Bachelor of Science (Integrated) must successfully complete a total of 120 credit hours including a minimum of 45 credit hours from upper-division (300- or 400- level) courses, and not less than 15 credit hours, at any level, of Humanities and Social Science courses. Humanities and Social Science courses may be selected from among the areas that are considered Humanities and Social Science for purposes of the BA (General). Students must complete two areas of Specialization listed above. Students must ensure completion of course prerequisites before registering in any course.

Program Requirements

Lower-Division Requirement

BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laboratory
BIOL 124-1	Introductory Biology II Laboratory
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
MATH 100-3	Calculus
or MATH 10	05-3 Enriched Calculus
and MATH 101-3	Calculus II
or	
MATH 152-3	Calculus for Non-majors
and STAT 240-3	Basic Statistics
PHYS 100-4	Introduction to Physics I
or PHYS 11	0-4 Introductory Physics I: Mechanics

Introduction to Physics II PHYS 101-4 or PHYS 111-4 Introductory Physics II: Waves & Electricity

Upper-Division Requirement

Students must complete 18 upper-division credit hours within each of two areas of Specialization for a minimum of 36 credit hours.

Note that if a course falls into more than one Area of Specialization, it may be counted in only one Area of Specialization.

Eligible courses for the Biology, Ecology, and Biochemistry & Molecular Biology Area of Specialization

BCMB 306-3	Intermediary Metabolism
BCMB 307-3	Proteins
BCMB 308-3	Biochemistry Lab II
BCMB 330-3	Nucleic Acids
BCMB 340-3	Physical Biochemistry
BCMB 405-3	Topics in Biochemistry
BCMB 409-3	Enzymology
All upper-division	BIOL courses

Eligible courses for the Chemistry, Biochemistry & Molecular Biology Area of Specialization

BIOL 423-3	Molecular Evolution and Ecology
BIOL 424-3	Molecular Cell Physiology
BIOL 425-3	Applied Genetics and Biotechnology
All upper-division	BCMB and CHEM courses

3. Eligible courses for the Computer Science Area of Specialization

Students considering this Area of Specialization should include in the first year:

CPSC 100-4	Computer Programming I	
CPSC 141-3	Discrete Computational Mathematics	
CPSC 101-4	Computer Programming II	
All upper-division (CPSC courses except CPSC 311-3 Computer	
Applications Programming		

Eligible courses for the Environmental and Earth Sciences Area of Specialization

ENPL 305-3	Environmental Impact Assessment	
ENPL 402-3	Terrain Assessment	
FSTY 315-3	Forest Soil Management	
FSTY 425-3	Soil Formation and Classification	
FSTY 455-3	Biogeochemical Processes in Soil Systems	
GEOG 310-3	Hydrology	
GEOG 311-3	Concepts in Geomorphology	
GEOG 405-3	Fluvial Geomorphology	
GEOG 411-3	Quaternary and Surficial Geology	
GEOG 412-3	Geomorphology of Cold Regions	
GEOG 414-3	Weathering Processes	
NREM 410-3	Watershed Management	
PHYS 307-3	Selected Topics in Environmental Physics	
All upper-division ENSC courses except ENSC 417-6 Designing		
Solutions in Environmental Engineering		

Eligible courses for the Geography (Science) and GIS Area of Specialization

GEOG 300-3	Geographic Information Systems
GEOG 310-3	Hydrology
GEOG 311-3	Concepts in Geomorphology
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Quaternary and Surficial Geology
GEOG 412-3	Geomorphology of Cold Regions
GEOG 413-3	Advanced GIS
GEOG 414-3	Weathering Processes
GEOG 432-3	Remote Sensing
GEOG 457-3	Advanced Remote Sensing

6. Eligible courses for the Mathematics & Statistics Area of Specialization

All upper-division MATH courses except MATH 342-3 Biostatistics.

 Eligible courses for the Natural Resources and Forestry Area of Specialization

All upper-division FSTY courses except FSTY 310-3 Forest Economics All upper-division NREM courses except NREM 306-3 Society, Policy and Administration

All upper-division NRES courses

8. Eligible courses for the Physics Area of Specialization

All upper-division PHYS courses except PHYS 307-3 Selected Topics in Environmental Physics

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

BSc (Integrated) Northwest Community College Degree Completion Program

This 60 credit-hour program of study is available only to students who have completed an Associate of Science Degree – Environmental Geosciences Specialization from Northwest Community College.

Degree Requirements

 Northwest Community College Associate of Science Degree – Environmental Geosciences Specialization (minimum Cumulative GPA of 2.0) 2. Nine credit hours of required courses, as follows:

GEOG 300-3 Geographic Information Systems
ENVS 414-3 Environmental and Professional Ethics

NRES 421-1 Professional Writing
NRES 422-2 Undergraduate Report

Total: 9 credit hours

- 3. Three credit hours of any level Humanities and Social Sciences
- Eighteen credit hours in each of two Areas of Specialization (Specialization in Biology, Ecology, and Biochemistry & Molecular Biology and Specialization in Environmental and Earth Sciences):

Required courses for the Biology, Ecology and Biochemistry & Molecular Biology Area of Specialization

300 Level

BIOL 301-3	Systematic Botany
BIOL 307-3	Ichthyology and Herpetology
400 Level	
BIOL 402-3	Aquatic Plants
BIOL 406-3	Fish Ecology
BIOL 411-3	Conservation Biology
BIOL 414-3	Fisheries Management

Total: 18 credit hours

Required courses for the Environmental and Earth Sciences Area of Specialization

Select 18 credit hours from the following eight courses: ENPL 305-3 Environmental Impact Assessment ENSC 308-3 Northern Contaminated Environments ENSC 404-3 Waste Management Groundwater Hydrology ENGR 451-3 FSTY 425-3 Soil Formation and Classification GEOG 312-3 Geomorphology of Cold Regions Sedimentology GEOG 320-3 Quaternary and Surficial Geology GEOG 411-3

Total: 18 credit hours

Elective credit hours in any subject as necessary to ensure completion of a minimum of 60 credit hours.

Anthropology (BA Program)

Michel Bouchard, Professor Richard Lazenby, Professor Angèle Smith, Associate Professor Farid Rahemtulla, Assistant Professor Erin Gibson, Adjunct Professor Karyn Sharp, Adjunct Professor

Website: www.unbc.ca/anthropology

Anthropology is the integrated biological and sociocultural investigation of humankind, from the time of our pre-human ancestors to the present, including the study of both small- and large- scale societies. The program includes courses in archaeological, biological, linguistic and sociocultural anthropology. While a small number of mandatory courses will ensure that all students in the program share basic understanding of the range of anthropological approaches. students are able to select courses within the program and from other parts of the curriculum to focus on specific interests. The following suggestions illustrate the range of possibilities: a student with an interest in language could select courses within the programs in First Nations Studies, International Studies, English and Psychology; a student intending to enter a graduate program in archaeology might select courses from First Nations Studies, Geology, Geography, History and Environmental Studies programs; a student planning to work in the subfield of sociocultural anthropology could select courses from First Nations Studies, International Studies, Northern Studies, Women's Studies and Social Work; a student interested in biological (or medical) anthropology would include courses in Biology, Environmental Studies and Statistics; and a career in museology or cultural property management might benefit from a background in Resource Recreation and Tourism or administration as well as First Nations Studies, International Studies, History and Northern Studies.

Anthropology prepares students for entrance to a number of graduate programs (Archaeology, Biological and Sociocultural Anthropology, Museology); several types of professional programs (Law, Library and Information Science, Communicative Disorders, Social Work, Education, etc.) or employment in government or the private sector. Students aiming towards specific career goals should discuss their interests with advisors in the program at an early stage.

Major in Anthropology

Students majoring in anthropology must take 42 credit hours in Anthropology courses (fourteen courses). Students may not take more than 60 credit hours of Anthropology without written permission of the Department Chair.

The minimum requirement for completion of a Bachelor of Arts with a major in Anthropology is 120 credit hours.

Program Requirements and Recommendations

Lower-Division Recommendation

100 Level

ANTH 102-3 Anthropology: A World of Discovery

Lower-Division Requirements

200 Level

ANTH 200-3 Biological Anthropology
ANTH 205-3 Introduction to Archaeology
ANTH 213-3 Peoples and Cultures

Upper-Division Requirements

300/400 Level

One of:

ANTH 300-3 Methods in Social Anthropology
ANTH 301-3 Archaeological Lab Methods
ANTH 310-3 Applied Anthropology
ANTH 312-3 Human Adaptability

One of:

ANTH 315-3 Anthropological Theory
ANTH 325-3 Archaeological Theory

ANTH 460-3 Anthropology Capstone

Eight additional 3 credit hour courses in Anthropology of which four courses must be upper-level.

Subject Requirement

Students wishing to pursue graduate degrees in anthropology or work as practicing anthropologists are encouraged to take an additional five upper-level courses, including field school courses and internships.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

BA Honours – Anthropology

The BA Honours - Anthropology provides a higher level of training and specialization for students planning to proceed to academic and professional postgraduate study. Acceptance into the Anthropology Honours Program is by written application to the Department Chair, in which the student identifies the subdiscipline of interest, provides a statement of career objectives, and attaches an unofficial copy of their current transcript. The Honours Program is open to all students majoring in Anthropology who:

- 1. have completed 60 credit hours of course work
- have completed all lower level requirements for the major in Anthropology
- 3. possess a Cumulative GPA of 3.33.

In addition to the requirements for the Major in Anthropology, the Honours student will complete 12 additional credit hours, for a minimum total of 132 credit hours to graduate. These 12 credit hours derive from three courses, in a directed sequence of study.

ANTH 500-3	Method and Theory Seminar
ANTH 501-3	Research Prospectus
ANTH 502-6	Honours Thesis

The minimum requirement for completion of a BA Honours - Anthropology is 132 credit hours.

Joint Major in Anthropology and Geography (BA)

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Anthropology and Geography is 120 credit hours.

Program Requirements

Recommendation

ANTH 102-3 Anthropology: A World of Discovery

Students wishing to pursue graduate degrees in Anthropology or Geography are encouraged to take additional anthropology or geography courses up to 90 credit hours.

Lower-Division Requirement

One of:

GEOG 100-3 Environments and People: The Geography of

Natural Hazards

GEOG 101-3 Human Geographies of Global Change

ANTH 200-3 Biological Anthropology
ANTH 205-3 Introduction to Archaeology
ANTH 213-3 Peoples and Cultures

ECON 205-3 Statistics for Business and the Social Sciences

or STAT 240-3 Basic Statistics

ur	of:	
	GEOG 200-3	British Columbia: People and Places
	GEOG 202-3	Economic Geography of Resources and Sustainability
	GEOG 203-3	Roots, Ruggedness, and Rituals: A Geography of Canada
	GEOG 204-3	Introduction to GIS for the Social Sciences
	GEOG 206-3	Society and Space
	GEOG 209-3	Migration and Settlement
	GEOG 220-3	World Regions: Latin America and the
		Caribbean
	GEOG 222-3	World Regions: Russia

Upper-Division Requirement

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ANTH 300-3	Methods in Social Anthropology
ANTH 301-3	Archaeological Lab Methods
ANTH 310-3	Applied Anthropology
ANTH 312-3	Human Adaptability

One of:

ANTH 315-3	Anthropological Theory
ANTH 325-3	Archaeological Theory

ANTH 460-3 Anthropology Capstone

Three Upper-Division Anthropological courses (9 credit hours) excluding ANTH 499: Independent Study

Six of:

GEOG 301-3	Cultural Geography
GEOG 305-3	Political Ecology
GEOG 306-3	Geography of International Development:
	Places, People, Policies, and Promises
GEOG 307-3	Changing Arctic: Human and Environmental
	Systems
GEOG 308-3	Environments of Health and Care
GEOG 401-3	Tenure, Conflict, and Resource Geography
GEOG 403-3	First Nations and Indigenous Geography
GEOG 420-3	Geographies of Environmental Justice

21 additional credit hours of upper-division courses in any subject.

Elective and Academic Breadth

Elective course hours as necessary to ensure completion of a minimum of 120 credit hours, including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in Anthropology: Archaeological Anthropology

The minor in Archaeological Anthropology requires completion of a total of seven courses (21 credit hours), consisting of four lower-division courses (12 credit hours) and three upper-division courses (9 credit hours). A maximum of two courses (6 credit hours) used to fulfill program requirements for a major (or another minor) may also be used to fulfill requirements for a minor in Archaeological Anthropology.

Requirements & Recommendations

Recommended

ANTH 102-3 Anthropology: A World of Discovery

Requirements

ANTH 203-3 Archaeology of the Americas ANTH 205-3 Introduction to Archaeology ANTH 212-3 Archaeology of the Old World

Select 9 credit hours from:

ANTH 301-3 Archaeological Lab Methods ANTH 325-3 Archaeological Theory

ANTH 335-3 Archaeological Heritage Management

ANTH 380-(3-6) Special Topics in Archaeology

ANTH 409-3 Topics in British Columbia Archaeology ANTH 425-3 Introduction to Zooarchaeology

ANTH 430-3 Stone Tools in Archaeology

ANTH 440-(3-6) Internship

ANTH 460-3 Anthropology Capstone
ANTH 498-(3-6) Special Topics in Anthropology

ANTH 499-(3-6) Independent Study

Minor in Anthropology: Biological Anthropology

The minor requires completion of a total of six courses (18 credit hours), consisting of two lower-division courses (6 credit hours) and four upper-division courses (12 credit hours). With approval of the Chair, a maximum of one course (3 credit hours) used to fulfill requirements for a non-Anthropology major (or another minor) may also be used to fulfill program requirements for the minor in Biological Anthropology.

Recommendations

ANTH 102-3 Anthropology: A World of Discovery

Requirements

ANTH 200-3 Biological Anthropology ANTH 312-3 Human Adaptability

Select 9 credit hours from:

ANTH 311-3 Nutritional Anthropology
ANTH 320-3 Biology of Circumpolar Peoples
ANTH 411-(3-6) Topics in Biological Anthropology
ANTH 420-3 Races, Racism, and Human Biology

ANTH 460-3 Anthropology Captsone ANTH 499-(3-6) Independent Study

Minor in Anthropology: General Anthropology

The minor requires completion of a total of six courses (18 credit hours), consisting of two lower-division courses (6 credit hours) and four upper-division Anthropology courses (12 credit hours) no more than two of which may be be chosen from any single existing Anthropology Minor Area of Focus.

Recommendations

ANTH 102-3 Anthropology: A World of Discovery

Requirements

One of:

ANTH 200-3 Biological Anthropology
ANTH 205-3 Introduction to Archaeology
ANTH 213-3 Peoples and Cultures

Upper-Division Requirement

ANTH 315-3 Understanding Theory

Four additional courses, three of which must be upper-division courses.

Minor in Anthropology: Sociocultural Anthropology

The minor requires completion of a total of six courses (18 credit hours), consisting of two lower-division courses (6 credit hours) and four upper-division courses (12 credit hours).

Requirements

Select 6 credit hours from:

ANTH 211-3 Anthropology Through Film or ANTH 213-3 Peoples and Cultures
ANTH 315-3 Anthropological Theory

Select 12 credit hours from:

CL 12 CIEUR HOUIS HOIH.		
ANTH 300-	3 Me	ethods in Social Anthropology
ANTH 303-	3 Ar	chives/Texts/Museums and Contemporary
	Co	mmunities
ANTH 304-	3 Kir	nship and Social Organization
ANTH 305-	3 Cir	cumpolar Ethnography
ANTH 310-	3 Ap	plied Anthropology
ANTH 400-	3 An	thropological Theory
ANTH 401-	3 An	thropological Perspectives on Inequality
ANTH 404-	3 Co	mparative Study of Indigenous Peoples of
	the	e World
ANTH 405-	3 La	ndscapes, Place and Culture
ANTH 406-	3 Fe	minist Perspectives in Anthropology
ANTH 407-	3 Br	itish Columbia Ethnography
ANTH 410-	3 Th	eory of Nation and State
ANTH 413-	(3-6) En	vironmental Anthropology
ANTH 414-	3 Re	ligion, Ideology, and Belief Systems
ANTH 415-	3 Ec	onomic Anthropology
ANTH 419-	3 Po	litical and Legal Anthropology
ANTH 421-	3 Eth	nnographic Field Methods
ANTH 422-	3 Eth	nnographic Research Project
ANTH 423-	3 Ur	ban Anthropology
ANTH 460-	3 An	thropology Capstone

Biochemistry & Molecular Biology (BSc Program)

Kathy Lewis, Professor and Co-Chair Todd Whitcombe, Associate Professor and Co-Chair Keith Egger, Professor Dezene Huber, Professor Chow Lee, Professor Geoffrey Payne, Professor Stephen Rader, Professor Kerry Reimer, Professor Mark Shrimpton, Professor Andrea Gorrell, Associate Professor Brent Murray, Associate Professor Daniel Erasmus, Senior Lab Instructor

Website: www.unbc.ca/biochemistry

Biochemistry and Molecular Biology (BCMB) investigates how molecules work in living systems. There is no clear line dividing living from non-living systems; rather, there is a gradual increase in complexity from clearly inanimate molecules up to obviously complex organisms. The goal of biochemistry and molecular biology is to understand how simple, inanimate molecular interactions support life and how living systems are shaped by their molecular foundation.

The BCMB degree has two main components: learning about molecules, and learning about the scientific method. The former involves acquiring expertise in the foundations of biochemistry. such as organic and physical chemistry, and then exploring biological molecules and how they operate in living systems. The latter involves exploring how science asks questions to understand the workings of nature, while developing competence in laboratory skills and analysis. These two aspects are linked in that understanding how information is acquired is as important as the information itself, since different experimental systems can yield different insights into complex biological problems.

BCMB majors continue on to successful careers in a diverse range of fields, notably medicine, teaching, pharmacy, the biotechnology industry, science policy, and law. BCMB majors acquire strong skills in laboratory techniques, and are therefore qualified for many kinds of research positions, including graduate programs such as immunology, molecular genetics, and developmental biology. For students with interests in human health but not necessarily its molecular basis, UNBC also offers a degree in Health Science (the BHSc degree), which focuses on the social determinants of health and how health care is delivered. BCMB majors are encouraged to pursue their interests by combining the BCMB degree with minors in other fields, such as computer science, physics, business, or education.

Major in Biochemistry and Molecular Biology

The major in Biochemistry and Molecular Biology requires students to take at least 74 credit hours of Biochemistry and Molecular Biologyoriented courses, of which 33 credit hours must be upper division (i.e., 300 or 400 level). The minimum requirement for completion of a Bachelor of Science with a major in Biochemistry and Molecular Biology is 127 credit hours.

Program Requirements

Lower-Division Requirements

100 Level

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BIOL 103-3	Introductory Biology I	
BIOL 104-3	Introductory Biology II	
BIOL 123-1	Introductory Biology I Laboratory	
BIOL 124-1	Introductory Biology II Laboratory	
CHEM 100-3	General Chemistry I	
CHEM 101-3	General Chemistry II	
CHEM 120-1	General Chemistry Lab I	
CHEM 121-1	General Chemistry Lab II	
PHYS 100-4	Introduction to Physics I	
or PHYS 110-4 Introductory Physics I: Mechanics		
PHYS 101-4	Introduction to Physics II	
or PHYS 11	11-4 Introductory Physics II: Waves & Electricity	

One of the following three options:

MATH 100-3	Calculus I
and MATH 101-3	Calculus II
or	
MATH 105-3	Enriched Calculus
and MATH 101-3	Calculus II
or	
MATH 150-3	Finite Mathematics for Business and Economics
and MATH 152-3	Calculus for Non-majors

Students are strongly encouraged to take MATH 100-3 or MATH 105-3, and MATH 101-3, for the first-year Mathematics requirement.

Biochemistry Lab I

200 Level BCMB 255-2

BIOL 203-3	Microbiology
BIOL 210-3	Genetics
CHEM 201-3	Organic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Introductory Biochemistry
CHEM 250-1	Organic Chemistry Lab I
CHEM 251-1	Organic Chemistry Lab II
STAT 240-3	Basic Statistics
or STAT 371	-3 Probability and Statistics for Scientists
	and Engineers

Upper-Division Requirements

300 Level

BCMB 306-3 Intermediary Metabolism BCMB 308-3 Biochemistry Lab II BCMB 340-3 Physical Biochemistry BIOL 311-3 Cell and Molecular Biology

400 Level

BCMB 404-3 Proteins and Enzymology

Four of the following:

BCMB 401-3	Basic Science of Oncology
BCMB 402-3	Macromolecular Structure
BCMB 403-3	Advanced Nucleic Acids
BCMB 405-3	Special Topics in Biochemistry
BIOL 312-3	Molecular Cell Physiology
BIOL 323-3	Evolutionary Biology
BIOL 423-3	Molecular Evolution and Ecology
BIOL 425-3	Applied Genetics and Biotechnology

Subject Requirements

Twelve additional credit hours chosen from the following, of which at least 6 credit hours must be at the 300 or 400 level:

Any 200-level or above BCMB, BIOL or CHEM courses

CPSC 450-3 **Bioinformatics** Human Physiology I HHSC 305-3 Human Physiology II HHSC 306-3 PSYC 317-3 Psychobiology

PSYC 318-3 Sensation and Perception

PSYC 419-3 Neuropsychology

Note: NRES 430-6 can count towards this requirement with permission of the Program Chair.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of 127 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). Note: no more than 3 credit hours of continuing education courses may be used towards the BCMB major.

BSc Honours - Biochemistry and Molecular Biology

The BSc Honours in Biochemistry and Molecular Biology offers students a higher level of specialization and research experience, especially for students planning to pursue postgraduate work.

Honours students must complete the degree requirements for the BSc - Biochemistry and Molecular Biology Major. In addition to the total number of credit hours required for the Biochemistry and Molecular Biology Major, each student must complete 6 credit hours of undergraduate thesis course work, normally BCMB 430-6, under the supervision of a faculty member. Another undergraduate thesis course can be substituted with approval of the BCMB Curriculum Chair.

Students may apply to the BCMB Honours Program after completion of 60 credit hours in the Biochemistry and Molecular Biology major with a Cumulative GPA of not less than 3.33. Meeting these minimum requirements does not guarantee entry to the Honours Program. Entrance to the Honours Program in Biochemistry and Molecular Biology is at the discretion of the BCMB Program, and is contingent on the availability of a faculty member willing to supervise the undergraduate research thesis. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours Program.

The minimum requirement for completion of a BSc Honours -Biochemistry and Molecular Biology is 133 credit hours.

Minor in Biochemistry and Molecular Biology

The minor in Biochemistry and Molecular Biology is designed to provide students with a core of study in the field of Biochemistry and Molecular Biology. The program of study includes a grounding in chemistry and biology since these are the disciplines from which modern biochemistry and molecular biology arose. The minimum requirement for completion of the minor in Biochemistry and Molecular Biology is 42 credit hours, of which at least 12 credit hours must be at the upper-division level.

100 Level

BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laboratory
BIOL 124-1	Introductory Biology II Laboratory
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II

200 Level

BCMB 255-2	Biochemistry Lab I
BIOL 210-3	Genetics
CHEM 201-3	Organic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 204-3	Introductory Biochemistry

Note: Students are allowed to double-count all applicable first- and second-year courses; however, they must take upper-division courses for the minor that are not included in their major requirements or upper-division subject requirements to ensure completion of 12 upper-division credit hours outside of their major. Students must ensure that all prerequisites are fulfilled prior to taking a course at the 300 and 400 level.

300 and 400 Level

12 credit hours must be chosen from the following:

BCMB 306-3	Intermediary Metabolism
BCMB 308-3	Biochemistry Lab II
BCMB 340-3	Physical Biochemistry
BCMB 401-3	Basic Science of Oncology
BCMB 402-3	Macromolecular Structure
BCMB 403-3	Advanced Nucleic Acids
BCMB 404-3	Proteins and Enzymology
BCMB 405-3	Topics in Biochemistry and Molecular Biology
BIOL 311-3	Cell and Molecular Biology
BIOL 312-3	Molecular Cell Physiology
BIOL 323-3	Evolutionary Biology
BIOL 423-3	Molecular Evolution and Ecology
BIOL 425-3	Applied Genetics and Biotechnology
CHEM 405-3	Topics in Biochemistry

Biology (BSc Program)

Staffan Lindgren, Professor Emeritus

Kathy Lewis, Professor and Chair

Philip Burton, Professor

Darwyn Coxson, Professor

Russell Dawson, Professor

Keith Egger, Professor

Art Fredeen, Professor

Michael Gillingham, Professor

Dezene Huber, Professor

Chris Johnson, Professor

Hugues Massicotte, Professor

William McGill, Professor

Ken Otter. Professor

Katherine Parker, Professor, and Ian McTaggart Cowan Muskwa

Kechika Research Chair

Mark Shrimpton, Professor

Scott Green, Associate Professor

Brent Murray, Associate Professor

Lisa Poirier, Assistant Professor

Lisa Wood, Assistant Professor

Jane Young, Assistant Professor

Brian Aukema, Adjunct Professor

Bryan Bogdanski, Adjunct Professor

Carla Burton, Adjunct Professor

Allan Costello, Adjunct Professor

Doug Heard, Adjunct Professor

Philippe Henry, Adjunct Professor

Katherine Stewart, Adjunct Professor

Jenia Blair, Senior Lab Instructor

Saphida Migabo, Senior Lab Instructor

Roy Rea, Senior Lab Instructor

Website: www.unbc.ca/biology

The Bachelor of Science in Biology is a broadly based undergraduate program in biology that is designed to present the major concepts of contemporary biology at the molecular, cellular, organismal, population and community levels. The degree is designed to have sufficient flexibility for the student to follow interests ranging from microbial to plant to fish or wildlife biology. Capitalizing on the northern setting of the University, there is an emphasis on northern flora and fauna, morphological, biochemical, physiological and behavioural modifications to temperate and arctic conditions and the dynamics of microbial, plant and animal populations in northern ecosystems.

Major in Biology

The major in Biology requires students to take at least 65 credit hours of biology-oriented courses, of which 42 credit hours must be upper-division (i.e., 300 or 400) level. Note: NRES 430-6 can count as up to six credit hours toward this requirement (with permission of the Ecosystem Science and Management Program Chair).

The minimum requirement for the completion of a Bachelor of Science with a major in Biology is 126 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laboratory
BIOL 124-1	Introductory Biology II Laboratory

CHEM 100-3 General Chemistry I
CHEM 101-3 General Chemistry II
CHEM 120-1 General Chemistry Lab I
CHEM 121-1 General Chemistry Lab II

NRES 100-3 Communications in Natural Resources and

Environmental Studies

or ENGL 170-3 Writing and Communication Skills

MATH 152-3 Calculus for Non-majors

or MATH 100-3 Calculus I

or MATH 105-3 Enriched Calculus

PHYS 100-4 Introduction to Physics

or PHYS 110-4 Introductory Physics I: Mechanics

PHYS 101-4 Introduction to Physics I

or PHYS 111-4 Introductory Physics II: Waves & Electricity

*Recommended: MATH 101-3 Calculus II

Students who are interested in pursuing professional programs should contact the program advisor regarding the correct course sequences required for individual programs.

200 Level

ZUU LEVEI	
BIOL 201-3	Ecology
BIOL 202-3	Invertebrate Zoology
BIOL 203-3	Microbiology
BIOL 204-3	Plant Biology
BIOL 210-3	Genetics
CHEM 201-3	Organic Chemistry I
CHEM 203-3	Organic Chemistry II

CHEM 203-3 Organic Chemistry II
CHEM 204-3 Introductory Biochemistry

STAT 240-3 Basic Statistics

Students must also take 6 additional credit hours of courses at the 200 level or above. Students are encouraged to explore a diversity of courses during their undergraduate biology education. While biology content is not specifically required, biology students may find relevant courses among the following prefixes: ANTH, BCMB, CHEM, ENPL, ENSC, ENVS, FNST, FSTY, GEOG, HHSC, INTS, NOLS, NREM, NORS, ORTM, PHIL, PHYS, POLS, PSYC, and STAT.

It is recommended that students consult with a Student Advisor in terms of their interests and the content of various courses.

Upper-Division Requirement

300 Level

BIOL 311-3 Cell and Molecular Biology
BIOL 323-3 Evolutionary Biology
BIOL 325-3 Ecological Analyses

One of:

BIOL 304-3 Plants, Society and the Environment BIOL 321-3 Animal Physiology

Two of:

BIOL 301-3 Systematic Botany
BIOL 307-3 Ichthyology and Herpetology
BIOL 308-3 Ornithology and Mammalogy
BIOL 318-3 Fungi and Lichens

400 Level

BIOL 410-3 Population and Community Ecology

BIOL 411-3 Conservation Biology

One of:

BIOL 404-3 Plant Ecology
BIOL 406-3 Fish Ecology
BIOL 412-3 Wildlife Ecology

Subject Requirements

Fifteen additional credit hours chosen from the following, of which at least 6 credit hours must be at the 400 level:

Any 300 or 400 level BIOL courses

ENSC 406-3 Environmental Modelling

FSTY 307-3 Disturbance Ecology and Forest Health

Additional Requirement

At least one course with Social Sciences content must be taken from the following list:

BIOL 304, BIOL 350, BIOL 420, or BIOL 421 (these may also count as Subject Requirements);

or any course with one of the following prefixes:

ANTH, COMM, ECON, EDUC, ENPL, ENVS, FNST, INTS, NORS, ORTM, POLS, PSYC

Elective Requirement

Elective credit hours must be taken as necessary to ensure completion of a minimum of 126 credit hours.

BSc Honours – Biology

The Honours in Biology recognizes undergraduate students who both excel at their studies and who complete the Undergraduate Thesis (normally NREM 430-6).

To enter the Honours Program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum Cumulative GPA requirement does not guarantee entry into the Honours Program, which is at the discretion of the Ecosystem Science and Management Program. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours program.

Honours students are required to complete the degree requirements for the BSc in Biology. In addition, each student must also complete an additional 6 credit hours in the form of an undergraduate thesis chosen from NRES 430-6, ENSC 430-6, or BCMB 430-6 under the supervision of a faculty member.

Note: Students are responsible for finding their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise honours students.

Minor in Biology

The minor in Biology offers students in other disciplines the opportunity to gain a solid foundation in the diversity of life and biological processes.

The minor in Biology requires the completion of 29 credit hours, of which 12 credit hours must be at the upper-division (l.e., 300 or 400) level.

A maximum of 14 credit hours which are used to fulfill requirements for a major or another minor may also be used to fulfill program requirements for a minor in Biology. These 14 credit hours consist of 8 credit hours at the 100 level plus 6 credit hours at the 200 level or above.

Requirements

BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laboratory
BIOL 124-1	Introductory Biology II Laboratory
BIOL 201-3	Ecology
BIOL 210-3	Genetics
BIOL 323-3	Evolutionary Biology

One of:

BIOL 202-3	Invertebrate Zoolog
BIOL 203-3	Microbiology
BIOL 204-3	Plant Biology

One of:

BIOL 301-3	Systematic Botany
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 318-3	Fungi and Lichens

One of:

0	
BIOL 304-3	Plants, Society and the Environment
BIOL 311-3	Cell and Molecular Biology
BIOL 321-3	Animal Physiology

Three additional credit hours in Biology at the 300 or 400 level.

Minor in Biology and Conservation

The minor in Biology and Conservation provides students with a background in ecological principles and techniques associated with the management and conservation of animal and plant populations and communities associated with a range of ecosystems. Upon completion of the minor, students will have a broad background in genetics and evolution, population and community dynamics, ecological analysis, and the key problems and approaches for conserving biological diversity.

The minor in Biology and Conservation requires the completion of a minimum of 27 credit hours of study (plus associated prerequisites). A maximum of two courses (6 credit hours) used to fulfill the requirements for a major, or another minor, may also be used to fulfill requirements for this minor. Forest Ecology and Management Majors will have the following pre-requisites as part of the major core requirements. Students from other majors will need to fulfill the pre-requisite requirements for this minor.

BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laboratory
BIOL 124-1	Introductory Biology II Laboratory
BIOL 201-3	Ecology
STAT 240-3	Basic Statistics

Required Courses

BIOL 210-3	Genetics
BIOL 323-3	Evolutionary Biology
BIOL 325-3	Ecological Analysis
BIOL 410-3	Population and Community Ecology
BIOL 411-3	Conservation Biology

Four of the following courses, two of which must be Biology courses:

NREM 204-3	Introduction to Wildlife and Fisheries
BIOL 304-3	Plants, Society and the Environment
BIOL 307-3	Icthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 321-3	Animal Physiology
BIOL 333-3	Field Experience
BIOL 350-3	Ethnobotany
BIOL 318-3	Fungi and Lichens
BIOL 402-3	Aquatic Plants
BIOL 404-3	Plant Ecology
BIOL 406-3	Fish Ecology
BIOL 412-3	Wildlife Ecology
BIOL 440-3	Internship
ENPL 305-3	Environmental Impact Assessment
NRFM 413-3	Agroforestry

School of Business (BComm Program)

Steven Cronshaw, Professor Emeritus

Sungchul Choi, Professor and Acting Chair Wagar Hague, Professor Reza Chowdhury, Associate Professor Balbinder Deo, Associate Professor Xin Ge, Associate Professor Jing Chen, Assistant Professor Wootae Chun, Assistant Professor Kafui Monu, Assistant Professor Paul Messinger, Adjunct Professor Rick Colbourne, Adjunct Professor Ove Abiove, Lecturer Julius Bankole, Lecturer Mike Cuthbertson, Lecturer Wendy Fellers, Lecturer Charles Scott, Lecturer Jaspreet Sra, Lecturer

Website: www.unbc.ca/commerce

The School of Business offers a program leading to the degree of Bachelor of Commerce. This program provides education in business as well as exposure to the liberal arts, social sciences, and natural sciences. The program offers students the ability to major in the areas of Accounting, Finance, General Business, Human Resources Management, International Business or Marketing. Although all students must follow the program of study of at least one of the specified majors, the Bachelor of Commerce degree program has been designed to provide students with an exposure to all aspects of the contemporary business world. The objective of the program is to adequately prepare students to deal with the increasingly complex and dynamic environment in which business and labour must operate. While the program focuses on a wide range of business activities and types of organizations, special emphasis is placed on industries and firms of relevance to the region of northern British Columbia including small business/entrepreneurship, tourism and forestry. Exposure to these industries will occur within individual courses as part of course content, as well as through the use of relevant case studies and practica. In addition, individual courses relating to the industries emphasized are available either within the Commerce program, or through other relevant programs.

The minimum requirement for completion of a Bachelor of Commerce is 120 credit hours.

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

Common Requirements for all Business Students

Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of C- or better. BCOMM students can only register in upper division COMM courses when MATH 150-3 and MATH 152-3 are completed with a minimum grade of C- or better. In exceptional circumstances the Chair of the School of Business may waive the above requirements.

Lower-Division Requirements

100 Level

COMM 100-3* Introduction to Canadian Business

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

FNST 100-3 The Aboriginal Peoples of Canada

MATH 150-3** Finite Mathematics for Business and Economics or MATH 220-3 Linear Algebra

MATH 152-3** Calculus for Non-majors or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours of courses required for the Commerce degree are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

200 Level

COMM 200-3	Business Communication
COMM 210-3	Financial Accounting
COMM 211-3	Managerial Accounting
COMM 220-3	Financial Management I
COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing
COMM 251-3	Introduction to Management Science
CPSC 250-3	Applied Business Computing
ECON 205-3	Statistics for Business and the Social Sciences
or STAT 24	N-3 Rasic Statistics

or STAT 240-3 Basic Statistics

Upper-Division Requirement

300 and 400 Level

COMM 300-3	Introduction to Business Law
COMM 320-3	Financial Management II
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 343-3	Behaviourial Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 400-3	Strategic Management
ECON 350-3	Managerial Economics

Bachelor of Commerce Honours (BComm Honours)

Students in the BComm Honours Program must complete all requirements for the BComm in their major(s) of choice. In addition, the students must successfully complete 6 credit hours of COMM 497-(3-6) Honours Thesis. The Honours Thesis must be conducted under the supervision of a faculty member with PhD qualifications. Entry to the Honours Program takes place after the end of the second year of BComm studies (l.e., upon completion of at least 60 credit hours) and requires a minimum GPA of 3.33 calculated on the last 60 credit hours completed at the time of declaration to the Honours Program. Prospective BComm Honours Students must have successfully completed MATH 150-3, MATH 152-3, CPSC 250-3, and ECON 205-3, or their equivalents, before they will be considered for entry to the BComm Honours Program. Attaining a minimum GPA of 3.33 in the first two years of the BComm does not guarantee entry to the Honours Program, which is at the discretion of the Department. To remain in the Honours Program students must maintain a minimum Semester GPA of 3.33 to be calculated at the end of each semester and receive no grade lower than a C+ in any course after entry to the Honours Program.

Major in Accounting

Every organization needs to keep track of its financial operations and financial position. Accounting is concerned with the measurement, provision, interpretation and application of financial and economic information for the efficiency and evaluation of an organization's operations. The information provided by the accounting function is employed for effective planning, control and decision making by management, and to report on the organization's financial operations to shareholders, debtholders, government and other stakeholders of the firm. Graduates with an Accounting major are in demand by all sectors of the economy, including government, business, and public accounting firms. An Accounting major is recommended for students who wish to become Chartered Accountants (CAs), Certified General Accountants (CGAs), or Certified Management Accountants (CMAs).

The minimum requirement for a Bachelor of Commerce with a major in Accounting is 120 credit hours.

Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

Lower-Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

FNST 100-3 The Aboriginal Peoples of Canada

MATH 150-3** Finite Mathematics for Business and Economics or MATH 220-3 Linear Algebra

MATH 152-3** Calculus for Non-majors or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours of courses required for the Commerce degree are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

200 Level

ZUU LUVUI	
COMM 200-3	Business Communications
COMM 210-3	Financial Accounting
COMM 211-3	Managerial Accounting
COMM 220-3	Financial Management I
COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing

COMM 251-3	Introduction to Management Science
CPSC 250-3	Applied Business Computing

ECON 205-3 Statistics for Business and the Social Sciences

or STAT 240-3 Basic Statistics

Upper-Division Requirements

300 and 400 Level

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COMM 300-3	Introduction to Business Law
COMM 310-3	Intermediate Financial Accounting I
COMM 311-3	Intermediate Financial Accounting II
COMM 312-3	Intermediate Managerial Accounting
COMM 320-3	Financial Management II
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 343-3	Behavioural Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 400-3	Strategic Management
COMM 411-3	Advanced Management Accounting
ECON 350-3	Managerial Economics

One of the following ECON courses as best suits the student's BComm Major:

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	ECON 300-3	Labour Economics
	ECON 301-3	Women and the Economy
	ECON 308-3	International Economic Relations
	ECON 311-3	Intermediate Macroeconomic Theory
	ECON 312-3	Introduction to Econometrics
	ECON 317-3	Money, Banking and Financial Instituions
	ECON 321-3	Economics of Developing Countries
	ECON 401-3	Global Economy and Development
	ECON 407-3	The Economy of Northern BC
	ECON 425-3	Trade and the Environment
	ECON 435-3	Financial Economics and Quantitative
		Methods

One of the following:

COMM 410-3 Accounting Theory

COMM 414-3 Advanced Financial Accounting

Two of the following:

Personal Taxation COMM 313-3 COMM 314-3 Corporate Taxation COMM 315-3 International Accounting COMM 412-3 Auditina

COMM 413-3 Accounting: Advanced Topics

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Major in Finance

Finance involves evaluating profitability and valuing real investments such as capital projects, as well as financial securities such as stocks, bonds, options and futures. In addition to the study of sources of capital and financing decisions of the firm and individual investors, the Finance major also studies the management of financial institutions such as banks and trust companies. The tools of Finance are used by small and large firms, government and individual investors. Instruction in Finance provides valuable information regarding financing and evaluating investment opportunities to students planning to enter into business for themselves. Government and firms employ Finance majors as financial analysts as well as in general management positions. In addition, the financial services industry is one of the fastest growing industries in Canada. Individuals interested in positions in the financial sector, or pursuing either the Chartered Financial Planner (CFP) or Chartered Financial Analyst (CFA) designations, or completing the Canadian Securities Course (CSC), should consider majoring in Finance.

The minimum requirement for a Bachelor of Commerce with a major in Finance is 120 credit hours.

Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

Lower-Division Requirement

100 Level

COMM 100-3*	Introduction to	Canadian Business
COMMINI 100-3	IIIII UUUUUUI IU	Danaulan Dusiness

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

FNST 100-3 The Aboriginal Peoples of Canada

MATH 150-3** Finite Mathematics for Business and Economics or MATH 220-3 Linear Algebra

MATH 152-3** Calculus for Non-majors or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours of courses required for the Commerce degree are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

200 Level

COMM 200-3	Business Communications	
COMM 210-3	Financial Accounting	
COMM 211-3	Managerial Accounting	
COMM 220-3	Financial Management I	
COMM 230-3	Organizational Behaviour	
COMM 240-3	Introduction to Marketing	
COMM 251-3	Introduction to Management Science	
CPSC 250-3	Applied Business Computing	
ECON 205-3	Statistics for Business and the Social Sciences	
or STAT 240-3 Basic Statistics		

Upper-Division Requirements

300 and 400 Level

ECON 300-3

COMM 300-3	Introduction to Business Law
COMM 320-3	Financial Management II
COMM 321-3	Investments and Security Analysis
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 343-3	Behavioural Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 400-3	Strategic Management
COMM 420-3	Advanced Financial Management
COMM 422-3	Management of Financial Institutions
ECON 350-3	Managerial Economics

One of the following ECON courses as best suits the student's BComm Major: Labour Economics

ECON 301-3	Women and the Economy
ECON 308-3	International Economic Relations
ECON 311-3	Intermediate Macroeconomic Theory
ECON 312-3	Introduction to Econometrics
ECON 317-3	Money, Banking and Financial Instituions
ECON 321-3	Economics of Developing Countries
ECON 401-3	Global Economy and Development
ECON 407-3	The Economy of Northern BC
ECON 425-3	Trade and the Environment
ECON 435-3	Financial Economics and Quantitative
	Methods
Two of the following:	
COMM 322-3	International Financial Management
COMM 323-3	Risk, Insurance, and Financial Planning
COMM 421-3	Portfolio Theory and Management
COMM 423-3	Financial Engineering

Elective and Academic Breadth

COMM 429-3

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Finance: Advanced Topics

Major in General Business

The General Business major allows students to obtain a reasonable depth of knowledge in all the functional areas of business while maintaining a broad-based education in business management. This combination provides the integrative management skills to operate both within and across functional responsibility areas, an ability valued highly by employers. Therefore, General Business majors are in demand by many firms and government organizations. Students intending to start their own business endeavours would also be well-served by the General Business major.

The minimum requirement for a Bachelor of Commerce with a major in General Business is 120 credit hours.

Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

Lower-Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

FNST 100-3 The Aboriginal Peoples of Canada

MATH 150-3** Finite Mathematics for Business and Economics or MATH 220-3 Linear Algebra

MATH 152-3** Calculus for Non-majors or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours of courses required for the Commerce degree are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

200 Level

COMM 200-3
COMM 210-3
Financial Accounting
COMM 211-3
Managerial Accounting
Financial Management I
COMM 230-3
COMM 240-3
Financial Management I
Organizational Behaviour
Introduction to Marketing

COMM 251-3 Introduction to Management Science CPSC 250-3 Applied Business Computing

ECON 205-3 Statistics for Business and the Social Sciences

or STAT 240-3 Basic Statistics

Upper-Division Requirements

300 and 400 Level

	
COMM 300-3	Introduction to Business Law
COMM 302-3	Entrepreneurship
COMM 320-3	Financial Management II
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 343-3	Behavioural Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 400-3	Strategic Management
ECON 350-3	Managerial Economics

One of the following ECON courses as best suits the student's BComm Major:

ECON 300-3	Labour Economics
ECON 301-3	Women and the Economy
ECON 308-3	International Economic Relations
ECON 311-3	Intermediate Macroeconomic Theory
ECON 312-3	Introduction to Econometrics
ECON 317-3	Money, Banking and Financial Instituions
ECON 321-3	Economics of Developing Countries
ECON 401-3	Global Economy and Development
ECON 407-3	The Economy of Northern BC
ECON 425-3	Trade and the Environment
ECON 435-3	Financial Economics and Quantitative
	Methods

Twelve credit hours selected from any of the other four majors or from the following (with no more than six credit hours in any one major area):

COMM 331-3 Organizational Theory COMM 333-3 Women in Organizations Women and the Economy or ECON 301-3 COMM 430-3 Organization Studies: Selected Topics COMM 431-3 Industrial Relations COMM 432-3 Cross-cultural Workplace Practices COMM 439-3 **HRM**: Selected Topics Total Quality Management COMM 450-3 COMM 498-(3-6) Special Topics in Business Administration

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Major in Human Resources Management

The success of any company or organization rests on the commitment and imagination of the people who are its members. Effective human resources management enables an organization to build success through people. By attracting qualified employees, developing their talents through training, fairly compensating them for their efforts and protecting their health and safety, we create organizations that are productive, innovative, and satisfying to employees. We provide our students with the knowledge and skills to effectively manage the people in an organization. Human resources management is a professional field that is growing rapidly in Canada and there are many career opportunities within this exciting field.

The minimum requirement for completion of a Bachelor of Commerce with a major in Human Resources Management is 120 credit hours.

Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of C- or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

Lower-Division Requirement

100 Level

COMM 100-3* Introduction to Canadian Business

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

FNST 100-3 The Aboriginal Peoples of Canada

MATH 150-3** Finite Mathematics for Business and Economics

or MATH 220-3 Linear Algebra
MATH 152-3** Calculus for Non-majors
or MATH 100-3 Calculus

*Students transferring with 30 or more credit hours of courses required for the Commerce degree are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

200 Level

COMM 200-3	Business Communications
COMM 210-3	Financial Accounting
COMM 211-3	Managerial Accounting
COMM 220-3	Financial Management I
COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing

COMM 251-3 Introduction to Management Science

CPSC 250-3 Applied Business Computing

ECON 205-3 Statistics for Business and the Social Sciences

or STAT 240-3 Basic Statistics

Upper-Division Requirements

300 and 400 Level

COMM 300-3	Introduction to Business Law
COMM 304-3	Employment Law in Canada
COMM 320-3	Financial Management II
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 334-3	Strategic Human Resource Planning
COMM 335-3	Organizational Effectiveness
COMM 343-3	Behavioural Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 400-3	Strategic Management
COMM 431-3	Industrial Relations
COMM 433-3	Recruitment, Selection and Retention
COMM 434-3	Compensation
COMM 435-3	Organizational Learning, Development and Training
COMM 436-3	Workplace Health and Safety
ECON 350-3	Managerial Economics

One of the following ECON courses as best suits the student's BComm Major:

ECON 300-3	Labour Economics
ECON 301-3	Women and the Economy
ECON 308-3	International Economic Relations
ECON 311-3	Intermediate Macroeconomic Theory
ECON 312-3	Introduction to Econometrics
ECON 317-3	Money, Banking and Financial Instituions
ECON 321-3	Economics of Developing Countries
ECON 401-3	Global Economy and Development
ECON 407-3	The Economy of Northern BC
ECON 425-3	Trade and the Environment
ECON 435-3	Financial Economics and Quantitative
	Methods

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Major in International Business

In recent years the importance of an international perspective for Business students has increased as a result of the increasing globalization of the economy. The International Business major exposes students to the impact of the international environment on the functional areas of business management. In conjunction with courses in the International Studies program, the major in International Business allows students to focus on a country or region of the world, providing education in language, culture and business practice. All students, particularly those majoring in International Business are encouraged to take courses in International Business at institutions / universities abroad approved by the UNBC International Exchange & Students Programs Office in order to gain practical international exposure as part of their Business of Commerce program. For more information on exchange opportunities refer to www.unbc.ca/ international.

Graduates are suited to work in firms or government agencies involved in international operations.

The minimum requirement for a Bachelor of Commerce with a major in International Business is 120 credit hours.

Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

Lower-Division Requirement

100 Level

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

FNST 100-3 The Aboriginal Peoples of Canada

INTS 101-3 Canada and the World

> or INTS 205-3 Introduction to International Studies

MATH 150-3** Finite Mathematics for Business and Economics or MATH 220-3 Linear Algebra

MATH 152-3** Calculus for Non-majors or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours of courses required for the Commerce degree are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

200	Level
200	LUVUI

COMM 200-3	Business Communications
COMM 210-3	Financial Accounting
COMM 211-3	Managerial Accounting
COMM 220-3	Financial Management I
COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing
COMM 251-3	Introduction to Management Science
CPSC 250-3	Applied Business Computing
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ECON 205-3 Statistics for Business and the Social Sciences

or STAT 240-3 **Basic Statistics**

Upper-Division Requirements

300 and 400 Level

COMM 300-3	Introduction to Business Law
COMM 303-3	Introduction to International Business
COMM 320-3	Financial Management II
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 343-3	Behavioural Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 400-3	Strategic Management
ECON 350-3	Managerial Economics

One of the following ECON courses as best suits the student's BComm Major:

	ECON 300-3	Labour Economics
	ECON 301-3	Women and the Economy
	ECON 308-3	International Economic Relations
	ECON 311-3	Intermediate Macroeconomic Theory
	ECON 312-3	Introduction to Econometrics
	ECON 317-3	Money, Banking and Financial Instituions
	ECON 321-3	Economics of Developing Countries
	ECON 401-3	Global Economy and Development
	ECON 407-3	The Economy of Northern BC
	ECON 425-3	Trade and the Environment
	ECON 435-3	Financial Economics and Quantitative
		Methods
ree	of following:	

Th

COMM 322-3 International Financial Management COMM 432-3 Cross-cultural Workplace Practices

COMM 441-3 International Marketing

International Studies Requirement

Six credit hours of International Studies courses at any level.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Major in Marketing

Marketing refers to the set of activities needed to find, build, and serve markets for products and services. Students of marketing will acquire analytical tools from economics, mathematics, statistics and the social and behavioural sciences. A major in Marketing is useful for such positions as account representatives, brand managers, advertising executives and market researchers. Marketing majors may find employment in the private sector, in non-profit organizations, and in government. Marketing concepts and principles are of particular importance to small businesses and new business ventures.

The minimum requirement for a Bachelor of Commerce with a major in Marketing is 120 credit hours.

Program Requirements

Note: Students enrolling in any course required for a major in the Bachelor of Commerce degree must have completed all prerequisite courses with a minimum of "C-" or better. In exceptional circumstances the Program Chair may waive this requirement on a case by case basis.

Lower-Division Requirement

100 Level

COMM 100-3*	Introduction to Canadian Business
ECON 100-3	Microeconomics
ECON 101-3	Macroeconomics
FNST 100-3	The Aboriginal Peoples of Canada
MATU 450 0++	EN MULICIPAL IE

MATH 150-3** Finite Mathematics for Business and Economics or MATH 220-3 Linear Algebra

MATH 152-3** Calculus for Non-majors or MATH 100-3 Calculus I

*Students transferring with 30 or more credit hours of courses required for the Commerce degree are exempt from this requirement.

**Students wishing to pursue additional Math courses as electives are advised to choose MATH 100-3 (Calculus I) and MATH 220-3 (Linear Algebra).

Students not having the appropriate prerequisites for any courses must consult with the Business Advisor.

200 Level

COMM 200-3	Business Communications
COMM 210-3	Financial Accounting
COMM 211-3	Managerial Accounting
COMM 220-3	Financial Management I
COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing
COMM 251-3	Introduction to Management Science
CPSC 250-3	Applied Business Computing
ECON 205-3	Statistics for Business and the Social Sciences
or STAT 240	0-3 Basic Statistics

Upper-Division Requirements

300 and 400 Level

COMM 300-3	Introduction to Business Law
COMM 320-3	Financial Management II
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 343-3	Behavioural Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 400-3	Strategic Management
COMM 442-3	Marketing Strategy
COMM 443-3	Marketing Research
ECON 350-3	Managerial Economics

Two of the following:

COMM 340-3	Marketing Communications
COMM 341-3	Sales Management
COMM 342-3	Services Marketing
COMM 346-3	Internet Marketing
COMM 347-3	Marketing Channels and Retail Marketing
COMM 441-3	International Marketing
COMM 449-3	Advanced Topics in Marketing

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in General Business

The Minor in General Business is designed for students from outside the School of Business who are interested in obtaining skills and knowledge of business management. It will appeal to students who anticipate becoming involved in the supervision or management of work units or organizations in their careers. Students can obtain a minor in General Business within their degree program by completing 24 credit hours.

The minor consists of 12 credits at the lower-division level (4 courses) and 12 credits (4 courses) at the upper-division level.

Required

COMM 100-3 Introduction to Canadian Business

Three of:

COMM 210-3	Financial Accounting
COMM 211-3	Managerial Accounting
COMM 220-3	Financial Management I
COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing
COMM 251-3	Introduction to Management Science

Four of:

JI.	
COMM 300-3	Introduction to Business Law
COMM 302-3	Entrepreneurship
COMM 303-3	Introduction to International Business
COMM 320-3	Financial Management II
COMM 330-3	Human Resource Management
COMM 332-3	Business and Professional Ethics
COMM 343-3	Behavioural Marketing
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems
COMM 431-3	Industrial Relations
COMM 432-3	Cross-cultural Workplace Practices

A maximum of 4 courses (12 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in General Business.

Minor in Management Information Systems

The Minor in Management Information Systems requires 27 credit hours of courses:

Required

COMM 100-3	Introduction to Canadian Business
COMM 251-3	Introduction to Management Science
COMM 350-3	Production and Operations Management
COMM 351-3	Management Information Systems

or CPSC 351-3 Management Information Systems

COMM 352-3 e-Business

or COMM 346-3 Internet Marketing

COMM 353-3 Business Data Communications and Networking

or CPSC 344-3 Data Communications and

Networking

COMM 354-3 Introduction to Business Intelligence

At least two of the following courses:

CPSC 324-3 Introduction to Database Systems

COMM 440-(3,6) Internship

COMM 451-3 Project Management

GEOG 204-3 Introduction to GIS for the Social Sciences

In addition, CPSC 110-3 and CPSC 126-3 are highly recommended.

A maximum of 4 courses (12 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Management Information Systems.

Alternative courses may be substituted for the above with written permission of the department Chair and Dean.

Chemistry (BSc Program)

Todd Whitcombe, Associate Professor and Chair

Chow H. Lee, Professor

Margot Mandy, Professor

Guy Plourde, Professor

Stephen Rader, Professor

Kerry Reimer, Professor

Andrea Gorrell, Associate Professor

Northrop, Jeffrey, Adjunct Professor

Martha Stark, Adjunct Professor

Yin, Jun, Adjunct Professor

Umesh Parshotam, Senior Lab Instructor

Daniel Erasmus, Senior Lab Instructor

Website: www.unbc.ca/chemistry

Chemistry is the fundamental science that deals with the nature of substances and the changes occurring in them. Chemical reactions are the basis of all life. Everything we are or do depends in one way or another on chemistry. A major or minor in chemistry or minor in biochemistry prepares you for a variety of careers in industry, education, ecology, and public service, or for graduate study and research in chemistry and many related fields.

Major in Chemistry

The major in Chemistry requires students to take at least 64 credit hours of Chemistry, 36 credit hours of which must be upper-division (i.e., 300 or 400) level.

The minimum requirement for completion of a Bachelor of Science with a major in Chemistry is 128 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

BIOL 103-3 Introductory Biology I BIOL 104-3 Introductory Biology II

BIOL 123-1 Introductory Biology I Laboratory
BIOL 124-1 Introductory Biology II Laboratory

CHEM 100-3 General Chemistry I
CHEM 101-3 General Chemistry II
CHEM 120-1 General Chemistry Lab I
CHEM 121-1 General Chemistry Lab II

CPSC 100-4 Computer Programming I

or CPSC 110-3 Introduction to Computer Systems and

Programming

MATH 100-3 Calculus I

or MATH 105-3 Enriched Calculus

MATH 101-3 Calculus II

PHYS 100-4 Introduction to Physics I

or PHYS 110-4 Introductory Physics I: Mechanics

and PHYS 101-4 Introduction to Physics II

or PHYS 111-4 Introductory Physics II: Waves and Electricity

PHYS 110-4 and PHYS 111-4 are strongly recommended.

200 Level

CHEM 200-3 Physical Chemistry I CHEM 201-3 Organic Chemistry I CHEM 202-3 Inorganic Chemistry I CHEM 203-3 Organic Chemistry II CHEM 204-3 Introductory Biochemistry CHEM 210-3 Analytical Chemistry I CHEM 250-1 Organic Chemistry Lab I CHEM 251-1 Organic Chemistry Lab II MATH 220-3 Linear Algebra

One of :

MATH 200-3 Calculus III

STAT 371-3 Probability and Statistics for Scientists and

Engineers

Upper-Division Requirement

300 Level

CHEM 300-3 Physical Chemistry II
or CHEM 305-3 Physical Chemistry III
CHEM 310-3 Analytical Chemistry III
or CHEM 311-3 Analytical Chemistry III
CHEM 315-3 Physical Chemistry Lab
CHEM 320-3 Inorganic Chemistry III
or CHEM 321-3 Inorganic Chemistry III
CHEM 322-3 Inorganic Chemistry Lab

400 Level

CHEM 401-3 Chemistry Seminar
CHEM 406-3 Advanced Laboratory I
CHEM 407-3 Advanced Laboratory II

Nine credit hours of 300 or 400 level Chemistry.* Three credit hours of 400 level Chemistry.*

*Up to 6 credit hours from BCMB 306-3, BCMB 307-3, BCMB 308-3, BCMB 330-3, BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-3, BCMB 405-3 BCMB 405-3 or BCMB 409-3 may be used to satisfy these requirements.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 128 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). A maximum of three credit hours from Continuing Studies may be used towards the elective credits. A total of 54 credit hours of upper-division study (300- and 400-level courses) must be successfully completed to meet degree requirements.

Course Selection

Students interested in the Chemistry program of study should select courses in their first four semesters according to the schedule below. For availability of courses at the 300 and 400 level, students should consult with the Chair of the Curriculum Committee in the Chemistry program.

Semester One (September)

BIOL 103-3 Introductory Biology I

BIOL 123-1 Introductory Biology I Laboratory

CHEM 100-3 General Chemistry I
CHEM 120-1 General Chemistry Lab I
CPSC 100-4 Computer Programming I

or CPSC 110-3 Introduction to Computer Systems and

Programming

MATH 100-3 Calculus I

PHYS 100-4 Introduction to Physics I

or PHYS 110-4 Introductory Physics I: Mechanics

Semester Two (January)

BIOL 104-3 Introductory Biology II

BIOL 124-1 Introductory Biology II Laboratory

CHEM 101-3 General Chemistry II
CHEM 121-1 General Chemistry Lab II

MATH 101-3 Calculus II

PHYS 101-4 Introduction to Physics II

or PHYS 111-4 Introductory Physics II: Waves and Electricity

Semester Three (September)

CHEM 200-3 Physical Chemistry I
CHEM 201-3 Organic Chemistry I
CHEM 210-3 Analytical Chemistry I
CHEM 250-1 Organic Chemistry Lab I

Three (3) Math or elective credits

Semester Four (Winter)

CHEM 202-3 Inorganic Chemistry I
CHEM 203-3 Organic Chemistry II
CHEM 204-3 Introductory Biochemistry
CHEM 251-1 Organic Chemistry Lab II
MATH 220-3 Linear Algebra

Three (3) Math or elective credits

BSc Honours – Chemistry

The BSc Honours in Chemistry offers students a higher level of education and research experience. It is particularly suitable for students intending to proceed to postgraduate studies.

Admission to the Honours program takes place after the completion of 60 credit hours and requires a minimum Cumulative GPA of 3.33. Attaining the minimum requirement does not guarantee admission to the Honours program which is at the discretion of the Chemistry Program and contingent upon the availability of a faculty member to supervise the undergraduate thesis. To remain in the Honours program, students must maintain a minimum Cumulative GPA of 3.33. All Honours students must complete an undergraduate thesis under the direct supervision of a faculty member.

Students are required to complete 134 credit hours, six of which are the undergraduate thesis, and to satisfy the requirements of the major in Chemistry.

Joint Major in Chemistry/Computer **Science**

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Computer Science is 126 credit

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

Program Requirements

Literacy Requirement

One of:

MATH 220-3

Writing and Communication Skills ENGL 170-3

ENGL 270-3 **Expository Writing**

Lower-Division Requirement

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 210-3	Analytical Chemistry I
CPSC 100-4	Computer Programming I
CPSC 101-4	Computer Programming II
CPSC 141-3	Discrete Computational Mathematics
CPSC 200-3	Algorithm Analysis and Development
CPSC 230-4	Introduction to Logic Design
CPSC 231-4	Computer Organization and Architecture
CPSC 242-3	Mathematical Topics for Computer Science
CPSC 281-3	Data Structures I
MATH 100-3	Calculus I
or MATH 10	05-3 Enriched Calculus
MATH 101-3	Calculus II

Upper-Division Requirement

Chemisty

CHEM 300-3 Physical Chemistry II or CHEM 305-3 Physical Chemistry III CHEM 310-3 Analytical Chemistry II or CHEM 311-3 Analytical Chemistry III Inorganic Chemistry II CHEM 320-3 or CHEM 321-3 Inorganic Chemistry III

Fifteen credit hours of 300- or 400-level Chemistry*.

*Up to 6 credit hours from BCMB 306-3, BCMB 307-3, BCMB 308-3, BCMB 330-3, BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-3, BCMB 405-3 or BCMB 409-3 may be used to satisfy these requirements.

Computer Science

CPSC 320-3 Programming Languages CPSC 321-3 Operating Systems

CPSC 370-3 Functional and Logic Programming

Six credit hours of 300- or 400-level Computer Science*; and Six credit hours of 400-level Computer Science (excluding the seminar, project, and special topics courses).

*Between the two disciplines, a minimum of 15 credit hours at the 400 level must be completed.

One of:

MATH 335-3 Numerical Analysis I

STAT 371-3 Probability and Statistics for Scientists and

Engineers

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 126 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Linear Algebra

Joint Major in Chemistry/ Mathematics

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Mathematics is 125 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

Program Requirements

Lower-Division Requirement

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 210-3	Analytical Chemistry I
CPSC 100-4	Computer Programming I
MATH 100-3	Calculus I
or MATH 10	5-3 Enriched Calculus
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 201-3	Introduction to Complex Analysis
MATH 220-3	Linear Algebra
MATH 230-3	Linear Differential Equations and Boundary Value
	Problems
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity

Upper-Division Requirement

Chemistry

CHEM 300-3 Physical Chemistry II
or CHEM 305-3 Physical Chemistry III
CHEM 310-3 Analytical Chemistry III
or CHEM 311-3 Analytical Chemistry III
CHEM 320-3 Inorganic Chemistry III
or CHEM 321-3 Inorganic Chemistry III

Nine credit hours of 300- or 400-level Chemistry * Six credit hours of 400 level Chemistry*

*Up to 6 credit hours from BCMB 306-3, BCMB 307-3, BCMB 308-3, BCMB 330-3, BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-2, BCMB 405-3 or BCMB 409-3 may be used to satisfy these requirements.

Mathematics

MATH 320-3	Survey of Algebra
MATH 326-3	Advanced Linear Algebra
MATH 335-3	Numerical Analysis I
STAT 371-3	Probability and Statistics fo

1-3 Probability and Statistics for Scientists and

Engineers

Six credit hours of 300- or 400-level Mathematics*; and Six credit hours of 400-level Mathematics

*Between the two disciplines, a minimum of 15 credit hours at the 400 level must be completed.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 125 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in Chemistry/Physics

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Chemistry and Physics is 126 credit hours.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

Program Requirements

Lower-Division Requirement

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
CHEM 200-3	Physical Chemistry I
CHEM 201-3	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3	Organic Chemistry II
CHEM 210-3	Analytical Chemistry I
CPSC 100-4	Computer Programming I
MATH 100-3	Calculus I
or MATH 10	5-3 Enriched Calculus
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 220-3	Linear Algebra
MATH 230-3	Linear Differential Equations and Boundary Value
	Problems
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I

Upper-Division Requirement

CHEM 300-3 Physical Chemistry II
or CHEM 305-3 Physical Chemistry III
CHEM 310-3 Analytical Chemistry III
or CHEM 311-3 Analytical Chemistry III
CHEM 320-3 Inorganic Chemistry III
CHEM 315-3 Physical Chemistry Lab

Six credit hours of 300- or 400-level Chemistry* and Six credit hours of 400-level Chemistry*

*Up to 6 credit hours from BCMB 306-3, BCMB 307-3, BCMB 308-3, BCMB 330-3, BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-3, BCMB 405-3 or BCMB 409-3 may be used to satisfy these upper-division Chemistry requirements.

MATH 336-3	Intermediate Differential Equations
PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 404-3	Solid State Physics
PHYS 351-3	Optics and Photonics I

Three credit hours of 300- or 400-level Physics and Six credit hours of 400-level Physics

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 126 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in Chemistry

The minor in Chemistry is designed to provide students with a solid grounding and a core of study in one or more of the subdisciplines of Chemistry. Thus, some flexibility is permitted in satisfying the requirements for a minor. Students have the option to study a range of subdisciplines at the 300 level while counting the 200-level prerequisites toward the minor or to focus on particular subdisciplines through to the 400 level. A maximum of six courses (14 credit hours) of the 100- and 200-level courses used to fulfill requirements for a major (or another minor) may also be used toward a minor in Chemistry.

The minimum requirement for completion of the minor in Chemistry is 29 credit hours.

100 Level

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II

200 Level

At least nine cred	it hours from:
CHEM 200-3	Physical Chemistry I
CHEM 201-3*	Organic Chemistry I
CHEM 202-3	Inorganic Chemistry I
CHEM 203-3*	Organic Chemistry II
CHEM 204-3*	Introductory Biochemistry
CHEM 210-3	Analytical Chemistry I
CHEM 250-1	Organic Chemistry Lab I
CHEM 251-1	Organic Chemistry Lab II

***Note:** Selections made should incorporate prerequisites for intended upper-division courses.

300 and 400 Level

300 and 400 LCV	UI .
At least 12 credit	hours from:
BCMB 306-3	Intermediary Metabolism*
BCMB 307-3	Proteins*
BCMB 308-3	Biochemistry Lab II*
BCMB 401-3	Basic Science of Oncology*
BCMB 402-3	Macromolecular Structure*
BCMB 403-3	Advanced Nucleic Acids*
BCMB 405-3	Topics in Biochemistry and Molecular Biology*
BCMB 409-3	Enzymology*
CHEM 300-3	Physical Chemistry II
CHEM 301-3	Advanced Organic Chemistry I
CHEM 302-4	Environmental Chemistry I
CHEM 303-3	Quantum Chemistry
CHEM 304-3	Advanced Organic Chemistry II
CHEM 305-3	Physical Chemistry III
CHEM 310-3	Analytical Chemistry II
CHEM 311-3	Analytical Chemistry III
CHEM 312-3	Organic Chemistry Lab III
CHEM 315-3	Physical Chemistry Lab
CHEM 320-3	Inorganic Chemistry II
CHEM 321-3	Inorganic Chemistry III
CHEM 322-3	Inorganic Chemistry Lab
CHEM 400-3	Topics in Environmental Chemistry
CHEM 402-3	Topics in Organic Chemistry
CHEM 403-3	Topics in Inorganic Chemistry
CHEM 404-3	Topics in Physical Chemistry
CHEM 405-3	Topics in Biochemistry
CHEM 408-3	Environmental Chemistry II

^{*} Up to 6 credit hours from BCMB 306-3, BCMB 307-3, BCMB 308-3, BCMB 330-3, BCMB 340-3, BCMB 401-3, BCMB 402-3, BCMB 403-3, BCMB 405-3 or BCMB 409-3 may be used toward a minor in Chemistry.

Computer Science (BSc Program)

David Casperson, Associate Professor and Chair Alex Aravind, Professor Liang Chen, Professor Waqar Haque, Professor Jernej Polajnar, Associate Professor Desanka Polajnar, Adjunct Professor Andreas Hirt, Adjunct Professor Allan Kranz, Senior Lab Instructor

Website: www.unbc.ca/computer-science

The Computer Science program gives students a thorough exposure to basic areas like computer architecture, programming languages and methodology, algorithms and data structures, systems programming, operating systems and networking, knowledge-based and database systems, software engineering, and theory. The student will develop the advanced practical computing and problem-solving skills required for professional work in modern industry, based on a strong conceptual foundation and on insights into the nature of this rapidly changing field. Each student will use advanced development tools, and will be encouraged to approach problem-solving from a multidisciplinary point of view. The program emphasizes direct cooperation with industry.

Major in Computer Science

A major in Computer Science requires at least 20 Computer Science courses and at least 61 credit hours in Computer Science, at least 27 credit hours of which must be upper-division courses, and of those upper-division credits, at least 12 must be taken at the 400 level. MATH 335-3 and STAT 371-3 can count towards this requirement.

The following courses may not be used for credit towards a Computer Science major or joint major:

MATH 150-3	Finite Mathematics for Business and Economics
MATH 342-3	Biostatistics

The minimum requirement for completion of a Bachelor of Science with a major in Computer Science is 120 credit hours.

Program Requirements

*Note: Unless otherwise specified, students enrolling in any Computer Science or Mathematics course with prerequisites are required to have completed all prerequisite courses for that course with a "C-" or better, or have permission to enroll from the Program Chair.

Lower-Division Requirement

100 Level	
CPSC 100-4	Computer Programming I
CPSC 101-4	Computer Programming II
CPSC 141-3	Discrete Computational Mathematics
ENGL 170-3	Writing and Communication Skills
or ENGL 2	70-3 Expository Writing
MATH 100-3	Calculus I

or MATH 105-3 Enriched Calculus *Note: MATH 101-3 Calculus II is strongly recommended.

200 Level	
CPSC 200-3	Algorithm Analysis and Development
CPSC 222-3	Introduction to Concurrent and Distributed
	Programming
CPSC 230-4	Introduction to Logic Design
CPSC 231-4	Computer Organization and Architecture
CPSC 242-3	Mathematical Topics in Computer Science
CPSC 260-3	Ethics in Computing
CPSC 281-3	Data Structures I
MATH 220-3	Linear Algebra

General Science Requirement

Students must take two courses from the following list of science courses. It is recommended that computer science majors take PHYS 110-4 and PHYS 111-4. However, students may take any two courses from the following list, according to their interests, to fulfill the general science requirement:

PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 100-4	Introduction to Physics I
PHYS 101-4	Introduction to Physics II
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
PSYC 101-3	Psychology as a Science
ENVS 101-3	Introduction to Environmental Citizenship
GEOG 204-3	Introduction to GIS for the Social Sciences
GEOG 205-3	Cartography and Geomatics
GEOG 210-3	Geomorphology

*Note: In some special cases other science courses approved by the Chair of Computer Science may be used to satisfy this requirement.

Upper-Division Requirement

Computer Science Breadth

CPSC 300-3	Software Engineering
CPSC 320-3	Programming Languages
CPSC 321-3	Operating Systems
CPSC 324-3	Introduction to Database Systems
CPSC 340-3	Theory of Computation
CPSC 344-3	Data Communication and Networking
or CPSC 44	4-3 Computer Networking

*Note: STAT 371-3 Probability and Statistics for Scientists and Engineers is strongly recommended.

400 Level

At least 12 credit hours of Computer Science courses must be taken at the 400 level, and at least nine of these credit hours must be outside the seminar course, project course, (other than CPSC 400-3), research course, or special topics course category.

Alternate courses may be substituted for the above with the written permission of the Program Chair.

Subject Requirement

Six additional credit hours chosen from the following: Computer Science at any level

MATH 335-3 Numerical Analysis I

STAT 371-3 Probability and Statistics for Scientists and

Engineers

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). A total of 45 credit hours in upper-division (300 and 400 level) courses from any discipline are required for graduation.

BSc Honours – Computer Science

The Honours Program in Computer Science offers students additional undergraduate research experience and helps to prepare them for post-graduate studies in Computer Science and related fields.

Entry to the Computer Science Honours Program takes place after completion of 60 credit hours and requires a minimum Cumulative GPA of 3.33 over the previous 30 credit hours, and the permission of the Department Chair. Candidates are required to consult with their Student Advisor prior to entry to the Program. Attaining the minimum requirement does not guarantee entry to the Honours Program, which is at the discretion of the Department and epends on the availability of a supervisor. Faculty members are under no obligation to supervise Honours students. To remain in the Honours Program requires the maintenance of a minimum Cumulative GPA of 3.33.

To be awarded the BSc Honours degree students will

- complete 120 credit hours required for a BSc in Computer Science
- complete an additional 6 credit hours of CPSC 430 including the successful completion of an undergraduate thesis under the supervision of a faculty member
- complete Stat 371-3

Chemistry/Computer Science Joint Major

See Calendar entry under Chemistry.

Joint Major in Computer Science/ Mathematics

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Computer Science and Mathematics is 124 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

Program Requirements

Literacy Requirement

One of:

ENGL 170-3 Writing and Communication Skills

ENGL 270-3 Expository Writing

Lower-Division Requirement

CPSC 100-4	Computer Programming I		
CPSC 101-4	Computer Programming II		
CPSC 141-3	Discrete Computational Mathematics		
CPSC 200-3	Algorithm Analysis and Development		
CPSC 230-4	Introduction to Logic Design		
CPSC 231-4	Computer Organization and Architecture		
CPSC 242-3	Mathematical Topics for Computer Science		
CPSC 281-3	Data Structures I		
MATH 100-3	Calculus I		
or MATH 10	5-3 Enriched Calculus		
MATH 101-3	Calculus II		
MATH 200-3	Calculus III		
MATH 201-3	Introduction to Complex Analysis		
MATH 220-3	Linear Algebra		
MATH 224-3	Foundations of Modern Mathematics		
MATH 230-3	Linear Differential Equations and Boundary Value		
	Problems		

General Science Requirement

Two of:

)	f:	
	BIOL 103-3 and BIOL 123-1	Introductory Biology I Laboratory
	BIOL 104-3 and BIOL 124-1	Introductory Biology II Introductory Biology II Laboratory
	CHEM 100-3 and CHEM 120-1	General Chemistry I General Chemistry Lab I
	CHEM 101-3 and CHEM 121-1	General Chemistry II General Chemistry Lab II
	PHYS 100-4 or PHYS 110-4*	Introduction to Physics I Introductory Physics I:
	PHYS 111-4*	Introductory Physics II: Waves and Electricity

*Note: PHYS 110-4 (Introductory Physics I: Mechanics) and PHYS 111-4 (Introductory Physics II: Waves and Electricity) are strongly recommended for all majors.

Upper-Division Requirement

CPSC 320-3	Programming Languages
CPSC 321-3	Operating Systems
CPSC 370-3	Functional and Logic Programming

**Six credit hours of 300 or 400 level Computer Science; and Six credit hours of 400 level Computer Science (excluding seminar, project, and special topics courses).

MATH 320-3	Survey of Algebra
MATH 326-3	Advanced Linear Algebra
MATH 335-3	Numerical Analysis I
STAT 371-3	Probability and Statistics for Sc

Probability and Statistics for Scientists and

Engineers

Note: CPSC 340-3 (Theory of Computation) is recommended.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 123 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in Computer Science/ Physics

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Computer Science and Physics is 127 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics or Computer Science major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics or Computer Science major or joint major.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

Program Requirements

Literacy Requirement

One of:

ENGL 170-3 Writing and Communication Skills

ENGL 270-3 Expository Writing

^{**}Three credit hours of 300 or 400 level Mathematics; and Six credit hours of 400 level Mathematics.

^{**}Note: Three of these 9 credit hours must be at the 400 level so that the total number of Computer Science and Mathematics credit hours at the 400 level is at least 15.

Lower-Division Requirement

CPSC 100-4 CPSC 101-4 CPSC 141-3 CPSC 200-3	Computer Programming I Computer Programming II Discrete Computational Mathematics Algorithm Analysis and Development			
CPSC 231-4 CPSC 242-3	Computer Organization and Architecture			
CPSC 281-3	Mathematical Topics for Computer Science Data Structures I			
MATH 100-3 Calculus I				
or MATH 105-3 Enriched Calculus				
MATH 101-3	Calculus II			
MATH 200-3	Calculus III			
MATH 220-3	Linear Algebra			
MATH 230-3	Linear Differential Equations and Boundary Value Problems			
PHYS 110-4	Introductory Physics I: Mechanics			
PHYS 111-4	Introductory Physics II: Waves and Electricity			
PHYS 200-3	Thermal Physics			
PHYS 202-4	Electromagnetism and Optics			
PHYS 205-3	Modern Physics I			

Upper-Division Requirement

CPSC 320-3	Programming Languages
CPSC 321-3	Operating Systems
CPSC 370-3	Functional and Logic Programming

*Six credit hours of 300 or 400 level Computer Science; and Six credit hours of 400 level Computer Science (excluding seminar, project, and special topics courses).

MATH 336-3	Intermediate Differential Equations
MATH 335-3	Numerical Analysis I
STAT 371-3	Probability and Statistics for Scientists and
	Engineers
PHYS 300-3	Classical Mechanics
PHYS 302-3	Quantum Mechanics I
PHYS 305-4	Electronics [which must be taken before
	CPSC 231-4 (Computer Organization and
	Architecture)]
PHYS 404-3	Solid State Physics

^{*}Three credit hours of 300 or 400 level Physics; and Six credit hours of 400 level Physics (excluding seminar, project, and special topics courses).

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 127 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in Computing

The Minor in Computing requires the following 29 credit hours of courses:

Requirements

CPSC 100-4	Programming I
CPSC 101-4	Computer Programming II
CPSC 200-3	Algorithm Analysis and Development
CPSC 281-3	Data Structures I
CPSC 141-3	Discrete Mathematics
CPSC 300-3	Software Engineering
CPSC 324-3	Introduction to Database Systems
CPSC 344-3	Data Communications and Networking

One additional upper-division Computer Science course**

^{*}Three of these nine credit hours must be at the 400 level so that a minimum of 15 credit hours of 400 level Computer Science and Physics are completed.

^{**} MATH 335-3 (Numerical Analysis 1) may be used to meet this requirement.

Economics (BA and BSc Programs)

Fiona MacPhail, Professor and Chair Paul Bowles, Professor Jalil Safaei Boroojeny, Professor Baotai Wang, Professor Karima Fredj, Associate Professor Amarjit Bhullar, Assistant Professor Shamaila Nawaz, Assistant Professor

Website: www.unbc.ca/economics

Economics as a discipline is constructed around the need to identify agents in the economy and analyze their interactions. As such it is based upon deriving generalizations by identifying behavioural rules and examining causal relationships between economic variables. The emphasis on examining causal relationships is a distinguishing feature of economics and forms an important part of its claim to be a social science. As well as addressing these central concerns, the Department of Economics recognizes the interaction between the economy and other broader social, political, cultural and technological forces. The Department therefore places special emphasis on courses that analyze institutions, facilitate comparative studies, encourage a historical approach, and recognize the pervasiveness of technological change.

Major in Economics

Undergraduate students are required to take 15 Economics courses (45 credit hours). Of these, 10 courses (30 credit hours) are at the upper-division level.

The minimum requirement for completion of a Bachelor of Arts with a major in Economics is 120 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

MATH 150-3 Finite Mathematics for Business and Economics

or MATH 220-3 Linear Algebra
MATH 100-3 Calculus I

or MATH 152-3 Calculus for Non-majors

One of:

COMM 100-3 Introduction to Canadian Business
CPSC 110-3 Introduction to Computer Systems and

Programming

ENPL 104-3 Introduction to Planning

FNST 100-3 The Aboriginal Peoples of Canada INTS 100-3 Introduction to Global Studies POLS 100-3 Contemporary Political Issues

200 Level

ECON 205-3 Statistics for Business and the Social Sciences

Two of:

ECON 204-3	Contemporary Economic Issues
ECON 206-3	Methods of Economic Evaluation
ECON 210-3	Introduction to Health Economics and Policy
ECON 220-3	Global Economic Shifts

One of:

of:	
COMM 210-3	Financial Accounting
COMM 220-3	Financial Management I
COMM 230-3	Organizational Behaviour
COMM 240-3	Introduction to Marketing
CPSC 250-3	Applied Business Computing
ENPL 206-3	Planning Analysis and Techniques
FNST 249-3	Aboriginal Resource Planning
INTS 210-3	Globalizations
INTS 225-3	Global Environmental Challenge: Sustainability
POLS 200-3	Canadian Government and Policies
POLS 202-3	Canada in Comparative Perspective
POLS 255-3	Introduction to Law in Canada

Upper-Division Requirements

300 and 400 Level

ECON 310-3	Intermediate Microeconomic Theory
ECON 311-3	Intermediate Macroeconomic Theory
ECON 312-3	Introduction to Econometrics
ECON 412-3	Applying Economics in the Community
or ECON 44	40-3 Internship

18 credit hours of upper-division Economics and 6 credit hours of upper-level applied and/pr policy-oriented courses from any discipline (including Economics) and approval by the Chair.

*Note: Students wishing to pursue graduate studies in Economics are strongly advised to take ECON 320-3 (Introduction to Mathematical Economics) and ECON 451-3 (Advanced Microeconomic Theory).

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in Economics/Global and International Studies

Joint majors are designed for students interested in a combination of two related fields of study. A Joint Major normally involves a specific set of course requirements selected to provide a solid specialization in each of the two fields. The graduation requirements for a joint major can normally be met in four years of study. The minimum requirement for completion of a Bachelor of Arts with a joint major in Economics and Global and International Studies is 120 credit hours.

Program Requirements

Lower-Division Requirement

ECON 100-3	Micro	oeconomics
ECON 101-3	Macı	roeconomics
ECON 204-3	Cont	emporary Economic Issues
or ECON	206-3	Methods of Economic Evaluation
or ECON	210-3	Introduction to Health Economics and Policy
ECON 205-3	Stati	stics for Business and the Social Sciences
ECON 220-3	Glob	al Economic Shifts
INTS 100-3	Intro	duction to Global Studies

Upper-Division Requirement*

ECON 310-3	Inte	rmediate Microeconomic Theory
or ECON 3	350-3	Managerial Economics
ECON 311-3	Inte	rmediate Macroeconomic Theory

Globalizations

Two of:

INTS 210-3

ECON 308-3	International Economic Relations
ECON 321-3	Economics of Developing Countries
ECON 401-3	Global Economy
ECON 404-3	Poverty, Inequality and Development
INTS 310-3	Origins and Evolution of Our Globalizing World

Fifteen additional credit hours of 300- or 400-level Global and International Studies courses.

Six additional credit hours of 300- or 400-level Economics courses.

Language and Regional Studies Requirement

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GEOG 220-3	World Regions: Latin America and the
	Caribbean
GEOG 222-3	World Regions: Russia
HIST 281-3	Republican Latin America
INTS 200-3	Contemporary Russia
INTS 203-3	Contemporary Japan
INTS 204-3	Contemporary China
INTS 240-3	Contemporary Circumpolar North

Twelve credit hours of Global and International Studies language courses. At least two courses must be in one language.

Elective and Academic Breadth

Electives credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in Economics/Political Science

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Economics and Political Science is 120 credit hours.

Program Requirements

Lower-Division Requirement

Microeconomics

ECON 100-3

LCON 100-3	MICLOGCOLOTTICS
ECON 101-3	Macroeconomics
ECON 205-3	Statistics for Business and the Social Sciences
Two of:	
ECON 204-	Contemporary Economic Issues
ECON 206-	Methods of Economic Evaluation
ECON 210-	Introduction to Health Economics and Police
ECON 220-	Global Economic Shifts

POLS 100-3	Contemporary Political Issues
POLS 200-3	Canadian Government and Politics
POLS 202-3	Canada in Comparative Perspective
POLS 270-3	Political Philosophy: Antiquity to Early Modernity
POLS 290-3	Research and Writing for Political Science

^{*} Students must ensure that all prerequisites are fulfilled prior to registering in any courses. Note that MATH 152 is a prerequisite for ECON 310.

Upper-Division Requirement

ECON 310-3	Intermediate Microeconomic Theory
ECON 350-3	Managerial Economics
ECON 311-3	Intermediate Macroeconomic Theory
POLS 303-3	Democracy and Democratization
POLS 320-3	Canadian Politics and Policy
POLS 370-3	Political Philosophy: Early Modernity to
	Post-Modernity

Nine credit hours in Political Science at the 400 level. Eighteen credit hours in Economics at the 300 or 400 level.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in Economics/ Mathematics

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Economics and Mathematics is 121 credit hours.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics major, minor or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

Note: Students enrolling in any Mathematics courses are required to have completed all prerequisite courses that course with a "C-" or better, or have permission to enroll from the Chair of Mathematics.

Program Requirements

Literacy Requirement

One of:

ENGL 170-3 Writing and Communication Skills

ENGL 270-3 Expository Writing

Economic Requirements

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

Two of:

ECON 204-3 Contemporary Economic Issues
ECON 206-3 Methods of Economic Evaluation

ECON 210-3 Introduction to Health Economics and Policy

ECON 220-3 Global Economic Shifts

And:

ECON 205-3	Statistics for Business and the Social Sciences
ECON 310-3	Intermediate Microeconomic Theory
ECON 311-3	Intermediate Macroeconomic Theory
ECON 312-3	Introduction to Econometrics
ECON 320-3	Introduction to Mathematical Economics
ECON 451-3	Advanced Microeconomic Theory

Twelve additional credit hours of 300- or 400-level Economics.

Mathematics Requirements

MATH 100-3	Calculus I	
or MATH 10	05-3 Enriched Calculus	
MATH 101-3	Calculus II	
MATH 200-3	Calculus III	
MATH 201-3	Introduction to Complex Analysis	
MATH 220-3	Linear Algebra	
MATH 224-3	Foundations of Modern Mathematics	
MATH 230-3	Linear Differential Equations and Boundary Value	
	Problems	
MATH 320-3	Survey of Algebra	
or MATH 302-3 Introductory Mathematical Analysis		
STAT 371-3	Probability and Statistics for Scientists and	
	Engineers	

Six additional credit hours of 300- or 400-level Mathematics (STAT 372-3 is strongly recommended)
Six additional credit hours of 400-level Mathematics.

Program Requirements

CPSC 100-4 Computer Programming I

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 121 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

94

Minor in Economics

The minor in Economics requires the completion of 24 credit hours. Students must complete:

ECON 100-3 Microeconomics ECON 101-3 Macroeconomics

Two of:

ECON 204-3	Contemporary Economic Issues
ECON 205-3	Statistics for Business and the Social
	Sciences
ECON 206-3	Methods of Economic Evaluation
ECON 210-3	Introduction to Health Economics and Policy
ECON 220-3	Global Economic Shifts

12 credit hours of 300- or 400- level Economics courses.

A maximum of 4 courses (12 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Economics.

Alternative courses may be substituted for the above with written permission of the Chair of Economics and Dean.

Minor in International Development Studies

The International Development Studies minor provides students with the opportunity to learn about the lives of the majority of the world's population. Students have the opportunity to explore the diversity of cultures, political systems, histories, and economic strategies that shape the contemporary context for development. By combining courses from several subject areas and analyzing development as a concept and as a practice at the local, national and international levels, the program provides students with the knowledge and perspectives needed to gain a better understanding of the world in which we all live.

The Minor requires 27 credit hours. 12 credit hours are required in the lower-division and at least 12 credit hours must be from the upper division. In the upper division, courses must be chosen from at least three subject areas.

Lower-Division Required Courses

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ANTH 101-3	Peoples and Cultures
GEOG 101-3	Human Geographies of Global Change
HIST 191-3	The West and the World Since 1660
ECON 220-3	Global Economic Shifts

In addition, students must take 15 credit hours of elective courses from at least three subject areas of which at least 12 credit hours must be from the upper division.

Students must take two or more of:

ECON 321-3	Economics of Developing Countries
ECON 401-3	The Global Economy and Development
ECON 404-3	Poverty, Inequality and Development
GEOG 306-3	Geography of International Development:
	Places, People, Policies and Promises
INTS 304-3	International Development

Other approved courses are:

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ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 404-3	Comparative Study of Indigenous Peoples
	of the World
ENGL 340-3	Postcolonial Literature
ENGL 350-3	Comparative Literature
ENGL 440-3	Postcolonial Literature
ENGL 450-3	Special Topics in Comparative Literature
FNST 416-3	Indigenous Issues in International Perspective
GEOG 301-3	Cultural Geography
GEOG 305-3	Political Ecology
GEOG 308-3	Environments of Health and Care
GEOG 401-3	Tenure, Conflict and Resource Geography
GEOG 426-3	Geographies of Culture, Rights and Power
HIST 240-3	The Expansion of Europe
HIST 241-3	The Age of Empire: Europe and the World
	1789-1914
HIST 280-3	Colonial Latin America
HIST 281-3	Republican Latin America
HIST 290-3	The Contemporary World
HIST 380-3	Modern Mexico
INTS 100-3	Introduction to Global Studies
INTS 306-3	Human Rights
INTS 308-3	Gender and International Studies
INTS 402-3	Pacific Affairs
OTRM 403-3	International Dimensions of Recreation and
	Tourism
POLS 303-3	Democracy and Democratization
POLS 309-3	Politics and Society in China
POLS 412-3	Comparative Aboriginal State Relations

Students may count up to 12 credit hours in their Major towards their

School of Education (BEd Program)

Andrew Kitchenham, Professor, and Chair Margo Greenwood, Professor Tina Fraser, Associate Professor, BEd Coordinator Alexander Lautensach, Associate Professor Peter MacMillan, Associate Professor Verna Lynn McDonald, Associate Professor Gregory Nixon, Associate Professor Linda O'Neill, Associate Professor, and MEd Counselling Coordinator (Regional) Lantana Usman, Associate Professor, and MEd Coordinator Edward Harrison, Assistant Professor, and BEd Coordinator – Northwest Region John Sherry, Assistant Professor Catherine Whalen, Assistant Professor Marie Burrows, Lecturer William Hay, Lecturer Deborah Koehn, Lecturer Carol Fedyk, Practicum Placement Coordinator, BEd Advisor Cathy Macintosh-Lambright, Practicum Placement Coordinator -Northwest Region

Website: www.unbc.ca/education

UNBC's Bachelor of Education degree (BEd) program and Bachelor of Education degree completion program are offered at the Prince George and Terrace campuses. At the Prince George campus, the BEd program offers both the Elementary Years (Grades K-7), and Secondary Years (Grades 8-12) streams. At the Terrace campus, only the Elementary Years Stream is offered. The BEd degree is a two-year program that consists of up to 67 credit hours in Education course work of which 16 credit hours is classroom experience. The BEd degree completion program is available only to applicants who have completed a UNBC Education Diploma in a First Nations Language and Culture and consists of an additional 50 credit hours of Education course work of which 13 credit hours is classroom experience. All Education courses within the BEd degree program and the BEd degree completion program are required. There are no elective courses offered.

Subject to the admission requirements for the Elementary Years stream (Grades K-7), students may apply to enter the BEd Elementary Years stream with, as described in the Admission Requirements, one of the following: (a) an acceptable three- or four-year bachelor's degree or (b) a minimum 90 credit hours of undergraduate course work or (c) a UNBC Education Diploma in a First Nations Language and Culture (minimum 92 credit hours). Students applying for admission under item (c) will be admitted to the BEd Elementary Years degree completion program and must complete, prior to graduation, the required Education courses not taken as part of the Education Diploma program and sufficient additional credit hours in a teachable field to attain a minimum 150 credit hours of combined academic, Education Diploma and BEd course work. Upon completion of the two-year BEd program or the two-year BEd degree completion program, students graduate with a Bachelor of Education degree.

Subject to the admission requirements for the Secondary Years stream (Grades 8-12), students may apply to enter the Secondary Years stream after having completed a four-year Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce degree (120 credit hours) or the equivalent as described in the Admission Requirements. Upon completion of the two-year BEd program, students will graduate with a BEd degree.

UNBC's BEd program provides students with the course work and classroom experience to prepare them to be qualified teachers. Upon successful completion of the program, graduates are recommended to the Ministry of Education Teacher Regulations Branch (TRB) for professional certification. Certification by the TRB is required for employment in the British Columbia public school system.

The Elementary Years and Secondary Years streams in Prince George begin in September of each year. The Elementary Years program in Terrace begins in September of each odd-numbered year. The application deadline for all Education programs is March 15 of the year in which students intend to begin their program. Students needing advice about the application process or about admission requirements are encouraged to contact either the Student Recruitment and Advising Centre or the Practicum Placement Coordinator/BEd Advisor in the School of Education. Students who are interested in applying to the BEd program at the Terrace campus may also contact the Northwest Regional campus for information.

Elementary Years (Grades K-7)

The Elementary Years stream prepares teacher candidates to work with the unique learning needs of children who are beginning their school years. This model reflects current thinking about optimizing the match between educational theory and children's levels of cognitive and social development. The Elementary Years stream is designed to educate teachers to combine pedagogical excellence across disciplinary areas with a learner-centered approach to practice. Philosophically, the program is designed around constructivist principles. It emphasizes approaches to practice such as inquiry-based learning, strategies for instruction, integration of language across the curriculum, inclusion of diverse learners and perspectives, the development of caring and respectful communities of learners, and reflective practice. Successful applicants to the Elementary Years stream are assigned to a cohort group of students and normally take their Education courses with that cohort group over the two years.

Admission Requirements

Applicants to the BEd degree Elementary Years stream must have completed, with a minimum GPA of 2.33 (C+) on the most recent 60 credit hours of university credit hours, one of the following:

- (a) an acceptable three- or four-year Bachelor's degree of which 60 credit hours, including 30 senior level credit hours, must be in Arts, Science, or other teachable fields relevant to the BC School system. or
- (b) a minimum of 90 credit hours of undergraduate course work, of which 60 credit hours, including 30 senior level credit hours, must be in Arts, Science, or other teachable fields relevant to the BC School system.

Applicants to the BEd degree completion program must have completed a UNBC Education Diploma in a First Nations Language and Culture (minimum 92 credit hours).

Transfer credit for course work relating to the 90 credit hours that have been completed prior to UNBC registration shall not be subject to the ten-year provision in the University Calendar regulation regarding Time Limit for Transfer Credit but shall be determined by the School of Education. In addition to the admission requirements described above, the following requirements must be met (see note following):

- Successful completion, with a C+ average, of 6 credit hours
 of acceptable English literature and composition at any level
 (one of the following: (a) 3 credit hours of English literature and
 3 credit hours of English composition or (b) 6 credit hours of
 acceptable English literature). Courses in linguistics, language
 study, grammar, technical or business writing, communication,
 or English as a Second Language are not acceptable to meet the
 English requirement.
- 2. 3 credit hours in Mathematics (not including Statistics).
- 3 credit hours in a laboratory science. Laboratory science credit hours are normally selected from Biology, Chemistry, Physical Geography, or Physics.
- 4. 3 credit hours of Canadian History or 3 credit hours of Canadian Geography plus 3 credit hours of Canadian Studies (this course must contain significant Canadian content). Credit hours will normally be selected from Anthropology, First Nations Studies, Geography, History, Northern Studies, or Political Science courses that contain significant Canadian content (upon review, credit hours from other disciplines may be recognized as meeting the Canadian content requirement).
- Submission of the completed application forms including the Experience with Children and Youth statement (resumé format), three Confidential Reference Forms, and the Personal Statement.

Note: Applicants who do not meet the requirements in items 1-4 above but who otherwise meet the admission requirements may be admitted provisionally to the BEd program with the approval of the Chair if they have completed a minimum of 12 credit hours of the required course work. Applicants admitted provisionally to the program under this section will not be recommended to the BC Ministry of Education, Teacher Regulation Branch for certification until they successfully complete the course work requirements.

Program Requirements

Elementary Years Stream (K-7) (Prince George Campus)

The entry route to this stream requires the completion of 60 credit hours of acceptable undergraduate course work in a teachable field, via (a) an acceptable three- or four-year Bachelor's degree or (b) a minimum 90 credit hours of acceptable course work.

Year 1: First Semester

EDITIC 333-5

LD00 333-Z	Learning Development & Motivation
EDUC 336-4	Learning and Diversity: Inclusive Classrooms/
	Learning Disabilities
EDUC 340-2	Curriculum Development Models
EDUC 346-2	Introduction to Aboriginal/Indigenous Education
EDUC 356-2	Language and Literacy: Development (EY)
EDUC 376-2	Numeracy: Math Concepts (EY)
EDUC 380-3	Foundations of Education
EDUC 390-3	Classroom Practice and Seminar I

Learning Development & Motivation

Year 1: Second Semester

EDUC 341-2	Principles of Inquiry-Based Instruction
EDUC 342-2	Social Dynamics of Classrooms
EDUC 351-2	Curriculum and Instruction: Second Language
EDUC 357-4	Language and Literacy: Reading & Writing (EY)
EDUC 366-2	Curriculum and Instruction: Social Studies (EY)
EDUC 377-2	Numeracy: Instructional Strategies (EY)
EDUC 387-2	Curriculum and Instruction: Science (EY)
EDUC 391-3	Classroom Practice and Seminar II

Year 2: First Semester

EDUC 407-4

EDUC 413-2	Interpersonal Counselling Skills (EY and SY)
EDUC 421-3	Classroom Assessment Practices
EDUC 431-3	Educational Technology
EDUC 446-2	Aboriginal/Indigenous Education: Epistemology
EDUC 456-2	Language and Literacy Across the Curriculum (EY)
EDUC 490-4	Classroom Practice and Seminar III

Curriculum and Instruction: Fine Arts (EY)

Year 2: Second Semester

EDUC 491-6 Classroom Practice and Seminar IV

Elementary Years Stream (K-7) (Terrace Campus)

Year 1: First Semester

EDUC 313-1	Interpersonal Communication
EDUC 333-2	Learning Development & Motivation
EDUC 340-2	Curriculum Development Models
EDUC 346-2	Introduction to Aboriginal/Indigenous Education
EDUC 356-2	Language and Literacy: Development (EY)
EDUC 376-2	Numeracy: Math Concepts (EY)
EDUC 380-3	Foundations of Education
EDUC 390-3	Classroom Practice and Seminar I

Year 1: Second Semester

EDUC 341-2	Principles of Inquiry-Based Instruction
EDUC 342-2	Social Dynamics of Classrooms
EDUC 351-2	Curriculum and Instruction: Second Language
EDUC 358-3	Language and Literacy: Reading, Writing, and
	Content Inquiry (EY)
EDUC 366-2	Curriculum and Instruction: Social Studies (EY)
EDUC 377-2	Numeracy: Instructional Strategies (EY)
EDUC 387-2	Curriculum and Instruction: Science (EY)
EDUC 391-3	Classroom Practice and Seminar II

EDUC 406-3

Year 2: First Semester

EDUC 421-3	Classroom Assessment Practices
EDUC 431-3	Educational Technology
EDUC 435-2	Learning and Diversity: Inclusive Classrooms
EDUC 446-2	Aboriginal/Indigenous Education: Epistemology
EDUC 456-2	Language and Literacy Across the Curriculum (EY)
EDUC 490-4	Classroom Practice and Seminar III

Curriculum and Instruction: Fine Arts (EY)

Year 2: Second Semester

)

Entry Route via a UNBC Education Diploma in a First Nations Language and Culture

Note: Students entering via this route must have completed, prior to graduation, sufficient additional elective credit hours in a teachable field to attain a minimum 150 credit hours of combined academic, Education Diploma and BEd course work.

Year 1: First Semester

EDUC 336-4	Learning and Diversity: Inclusive Classrooms/
	Learning Disabilities
EDUC 340-2	Curriculum Development Models
EDUC 376-2	Numeracy: Math Concepts (EY)
EDUC 396-2	Reflective Seminar
ELECTIVE 1-3	Academic course in a teachable area
ELECTIVE 2-3	Academic course in a teachable area

Year 1: Second Semester

EDUC 357-4	Language and Literacy: Reading and Writing (E'
EDUC 366-2	Curriculum and Instruction: Social Studies (EY)
EDUC 377-2	Numeracy: Instructional Strategies (EY)
EDUC 387-2	Curriculum and Instruction: Science (EY)
EDUC 391-3	Classroom Practice and Seminar II
ELECTIVE 3-3	Academic course in a teachable area

^{*} The EDUC 391-3 practicum is required only if it has not been taken previously as a component of the Education Diploma in a First Nations Language and Culture.

Year 2: First Semester

1001 =1111010011	100101
EDUC 407-4	Curriculum and Instruction: Fine Arts/Physical and
	Health Education (EY)
EDUC 413-2	Interpersonal Counselling Skills
EDUC 421-3	Classroom Assessment Practices
EDUC 431-3	Educational Technology
EDUC 446-2	Aboriginal/Indigenous Education: Epistemology
EDUC 456-2	Language and Literacy Across the Curriculum (EY)
EDUC 490-4	Classroom Practice & Seminar III

Year 2: Second Semester

EDUC 491-6 Classroom Practice & Seminar IV

Secondary Years (Grades 8-12)

The Secondary Years stream is a two-year after-degree program that prepares individuals to teach in grades 8 through 12 in specialty areas. This model reflects current thinking about optimizing the match between educational theory and children's levels of cognitive and social development. The Secondary Years stream is designed to educate teachers to combine pedagogical excellence across disciplinary areas with a learner-centered approach to practice. Philosophically, the program is designed around constructivist principles. It emphasizes approaches to practice such as inquiry-based learning, strategies for instruction, integration of language across the curriculum, inclusion of diverse learners and perspectives, the development of caring and respectful communities of learners, and reflective practice. Successful applicants to the Secondary Years stream will be assigned to a cohort group of approximately 35 students and will take all of their courses with that cohort group.

Admission Requirements

Applicants to the Secondary Years stream must have completed (with a minimum GPA of 2.33 (C+) on the most recent 60 credit hours of university credit hours completed), a four-year Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce degree (120 credit hours) or the equivalent (i.e., a three-year Bachelor's degree with a teachable major plus 30 additional approved university credit hours) with a minimum of 90 credit hours in Arts, Science, or Business Administration or in other teachable fields relevant to teaching in the BC School system. The remaining credit hours may come from any discipline.

In addition to the entry requirements described above, the following requirements must be met (see note following):

- Successful completion, with a C+ average, of 6 credit hours
 of acceptable English literature and composition at any level
 (one of the following: (a) 3 credit hours of English literature and
 3 credit hours of English composition or (b) 6 credit hours of
 acceptable English literature). Courses in linguistics, language
 study, grammar, technical or business writing, communication,
 or English as a second language are not acceptable to meet the
 English requirement.
- One of the following:

(EY)

- a. One teachable major and one teachable minor, or
- b. 2 teachable minors, or
- c. One teachable major.
- Submission of the completed application forms that include the Experience with Children and Youth statement (resumé format), three Confidential Reference Forms, and the Personal Statement.

Note: Applicants who do not meet the English requirement in item 1 above but who otherwise meet the admission requirements may be admitted provisionally to the BEd program with the approval of the Chair. Applicants admitted provisionally to the program under this section will not be recommended to the BC Ministry of Education, Teacher Regulation Branch for certification until they successfully complete the English requirements.

Program Requirements

Secondary Years (Grades 8-12)

Year 1: First Semester

EDUC 333-2	Learning Development and Motivation
EDUC 336-4	Learning and Diversity: Inclusive Classrooms/
	Learning Disabilities
EDUC 340-2	Curriculum Development Models
EDUC 346-2	Introduction to Aboriginal Education
EDUC 360-4	Curriculum and Instruction: Introduction (SY)
EDUC 380-3	Foundations of Education
EDUC 390-3	Classroom Practice and Seminar I

Year 1: Second Semester

EDUC 341-2	Principles of Inquiry-Based Instruction
EDUC 342-2	Social Dynamics of Classrooms
EDUC 345-3	Language and Literacy Across the Curriculum
EDUC 370-3	Numeracy Across the Curriculum (SY)
EDUC 361-4	Curriculum and Instruction: II (Humanities & Social
	Sciences)
or EDUC 37	2-4 Curriculum and Instruction: II (Math,
	Computer & Sciences)

or EDUC 315-4 Curriculum and Instruction: II (Business & Career Education)

EDUC 391-3 Classroom Practice and Seminar II

Year 2: First Semester

EDUC 413-2	Inter	personal Counselling Skills			
EDUC 421-3	Class	sroom Assessment Practices			
EDUC 431-3	Educ	ational Technology			
EDUC 435-2	Lang	juage and Diversity: Inclusive Classrooms			
EDUC 446-2		Aboriginal/Indigenous Education: Epistemology II			
EDUC 460-5	Curri	Curriculum and Instruction: III (Humanities and			
	Socia	al Sciences)			
or EDUC 47	71-5	Curriculum and Instruction: III (Math,			
		Computer and Sciences)			
or EDUC 4	14-5	Curriculum and Instruction: III (Business and			
		Career Education)			

EDUC 490-4 Classroom Practice and Seminar III

Year 2: Second Semester

EDUC 491-6 Classroom Practice and Seminar IV

Secondary Teachable Major and Minor Requirements

The following is a list of teachable majors and minors that have been approved by the Ministry of Education, Teacher Regulation Branch (TRB), are widely taught in British Columbia secondary schools, and that can be completed at the University of Northern British Columbia (graduates of equivalent programs at other recognized universities are also eligible for consideration to the program). In order for applicants to be eligible for the Secondary Years stream of the Bachelor of Education program; they must meet the requirements for one teachable major, a teachable major and minor, or two teachable minors from the following list:

Subject area	Major	Minor
Biology	×	×
Business Education	×	×
Chemistry	×	×
Computer Science	×	×
English	×	×
First Nations Studies		×
General Science	×	×
Geography	×	×
History	×	×
Mathematics	×	×
Physics	×	×
Social Studies	×	×

Applicants to the Bachelor of Education program should recognize that the credit levels for the teachable majors and minors meet the BC Ministry of Education, Teacher Regulation Branch accreditation requirements, and may not be equivalent to the formal requirements for a UNBC major or minor. Applicants should refer to the appropriate section of the UNBC Calendar in order to ensure that they are meeting all of the course work required to successfully complete UNBC degree requirements.

A teachable minor normally consists of 18 credit hours of upperdivision courses (numbered 300 or 400 and taken in the third and fourth year of study), in addition to required lower-division courses.

A teachable major normally consists of 30 credit hours of upperdivision courses (numbered 300 or 400 and taken in the third and fourth year of study), in addition to required lower-division courses.

Biology Major and Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the Biology teachable minor requirement must have completed a minimum of 6 credit hours of introductory (100-level) course work in each of Biology, Chemistry (at least one course with a lab component), Mathematics (at least one course, but preferably two courses, in calculus), and Physics (at least one course with a lab component). Applicants must also complete an additional 6 to 12 credit hours of study in Biology at the lower division, and 18 credit hours of upper-division course work in Biology. The course work must include both lecture and laboratory studies.

Applicants planning to meet the Biology teachable major requirement must complete an additional 12 credit hours of upper-division course work in biology.

Business Education Major and Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the Business Education teachable minor requirement must complete a minimum of 18 upper-division credit hours of specialized courses in Accounting, Marketing, Commercial Law, and Management Information Systems in addition to introductory (100-level) courses in Computer Science, Economics, and Mathematics.

Applicants planning to meet the Business Education teachable major requirement must complete an additional 12 credit hours of upper-division course work in Accounting, Finance, Marketing, and Management Information Systems.

Chemistry Major and Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the Chemistry teachable minor requirement must have completed a minimum of 6 credit hours of introductory (100-level) course work in each of Biology, Chemistry (at least one course with a lab component), Mathematics (at least one course, but preferably two courses, in calculus), and Physics (at least one course with a lab component). Applicants must also complete an additional 6 to 12 credit hours of study in Chemistry at the lower division, and 18 credit hours of upper-division course work in Chemistry. The course work must include both lecture and laboratory studies.

Applicants planning to meet the Chemistry teachable major requirement must complete an additional 12 credit hours of upper-division course work in Chemistry.

Computer Science Major and Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the Computer Science teachable minor requirement must complete a basic lower division course load in computer programming, computer structures, and Mathematics in addition to 18 credit hours of upper-division Computer Science course work covering advanced programming, systems design, and programming languages.

Applicants planning to meet the Computer Science teachable major requirement must complete an additional 12 credit hours of study in upper-division Computer Science course work.

English Major and Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the English teachable minor requirement must complete a basic lower-division course load that focuses on English literature and composition in addition to 24 credit hours of upper-division English courses including 6 credit hours from each of the following: English literature, pre-twentieth century literature, and contemporary literature. Applicants are also strongly encouraged to complete courses in both Canadian literature and Shakespeare.

Applicants planning to meet the English teachable major requirement must complete an additional 6 credit hours of upper-division course work in English.

First Nations Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the First Nations teachable minor requirement must complete a basic lower-division course load that focuses on general First Nations studies, First Nations language, and First Nations culture courses in addition to 18 credit hours of upper-division First Nations

Studies or related approved courses (related course work may come from Anthropology or History).

General Science Majors and Minors

Teachable areas that can be included within the General Sciences major and minor include Biology, Chemistry, Environmental Sciences, and Physics.

Bachelor of Education applicants to the Secondary Years stream planning to meet the General Sciences teachable minor requirement must complete 6 credit hours of study in introductory (100-level) course work in each of Biology, Chemistry (at least one course with a lab component), Mathematics (at least one course, but preferably two courses, in calculus), and Physics (at least one course with a lab component). Applicants must also complete a minimum of 6 credit hours of upper-division study in three of the four teachable areas: Biology, Chemistry, Environmental Sciences, and Physics.

Applicants planning to meet the teachable major requirement in General Sciences must complete an additional 12 upper-division credit hours of course work from the four teachable areas: Biology, Chemistry, Environmental Sciences, and Physics.

Geography Major and Minor

Applicants to the Geography major or minor programs must include courses from both cultural and physical geography within their program, as well as course work in regional and environmental studies.

Bachelor of Education applicants to the Secondary Years stream planning to meet the Geography teachable minor requirement must complete a minimum of 6 credit hours of introductory (100-level) or survey courses in each of Geography, History, and a social science.

Applicants must also complete a minimum of an additional 6 credit hours of lower-division geography course work and 18 credit hours of upper-division geography. A minimum of 6 credit hours must have a significant Canadian content.

Applicants planning to meet the Geography teachable major requirement must complete an additional 12 credit hours of upperdivision course work in geography.

History Major and Minor

Applicants to the History major or minor programs must include both Canadian and European history course work within their program, as well as the history of any region other than Canada or Europe.

Bachelor of Education applicants to the Secondary Years stream planning to meet the History teachable minor requirement must complete a minimum of 6 credit hours of introductory (100-level) or survey courses in each of Geography, History, and a social science.

Applicants must also complete a minimum of an additional 6 credit hours of lower-division history course work and 18 credit hours of

upper-division history. A minimum of 6 credit hours must have a significant Canadian content.

Applicants planning to meet the History teachable major requirement must complete an additional 12 credit hours of upper-division work in history.

Mathematics Major and Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the Mathematics teachable minor requirement must complete a minimum of 30 credit hours of study of which at least 18 credit hours must be at the upper-division level. The upper-division credit hours must include at least one course in three of the following areas: algebra, calculus, probability and statistics, geometry, and number theory.

Applicants planning to meet the Mathematics teachable major requirement must complete an additional 12 credit hours of upperdivision Mathematics course work in the above-listed areas.

Physics Major and Minor

Bachelor of Education applicants to the Secondary Years stream planning to meet the Physics teachable minor requirement must have completed a minimum of 6 credit hours of introductory (100-level) course work in each of Biology, Chemistry (at least one course with a lab component), Mathematics (at least one course, but preferably two courses, in calculus), and Physics (at least one course with a lab component). Applicants must also complete an additional 6 to 12 credit hours of study in Physics at the lower division, and 18 credit hours of upper-division course work in Physics. The course work must demonstrate both lecture and laboratory studies.

Applicants planning to meet the Physics teachable major requirement must complete an additional 12 credit hours of upper-division course work in Physics.

Social Studies Majors and Minors

Teachable areas that can be included within the Social Studies major and minor include Geography, History and acceptable Social Sciences (Anthropology, Economics, Environmental Studies, First Nations Studies, International Studies, Northern Studies, Political Science, Sociology, and Women's Studies).

Bachelor of Education applicants to the Secondary Years stream planning to meet the Social Studies teachable minor requirement must have completed a minimum of 12 upper-division credit hours in a social science teaching area (including Anthropology, Economics, Environmental Studies, First Nations Studies, International Studies, Northern Studies, Political Science, Sociology, and Women's Studies) acceptable in British Columbia secondary schools.

In addition, applicants must meet the minimum requirements for Geography (9 credit hours of which 3 credit hours must be at the upper-division level, 3 credit hours must be Canadian Geography, and 3 credit hours can be at any level), and History (18 credit hours

of which 6 credit hours must be at the upper-division level, 3 credit hours must be in Canadian history, 3 credit hours must be in European history, 3 credit hours must be in a region other than Canada or Europe, and 3 credit hours can be at any level).

Applicants planning to meet the Social Studies teachable major requirements must complete an additional 15 credit hours at the upper-division level course work (3 credit hours must be in geography, 3 credit hours must be in history, and 6 credit hours must be in the social sciences, and 3 credit hours can be in history, geography, or the social sciences).

Access Initiative

The UNBC School of Education has initiated a program designed to give access to individuals who are members of groups in our society which have historically been under-represented in the teaching profession in British Columbia. In order to achieve this objective, we encourage applicants who have confronted identifiable barriers to post-secondary education to apply under the Access Initiative. All applicants for the UNBC Bachelor of Education Program must submit a Personal Statement. Applicants who wish to apply under the Access Initiative may identify themselves in their Personal Statement Form to be considered under the Access Initiative.

Criminal Records Review

In addition to the admission application requirements outlined above, applications are required to undergo a criminal record review and provide evidence of this prior to being considered for admission. Refer to Undergraduate Regulations and Policies (Academic Regulation 20) in this Calendar.

Admission Decisions

Applications for admission can be obtained from either the Office of the Registrar, or from the School of Education. For further information concerning the application process, please contact either the Office of the Registrar or the School of Education.

Admissions rankings are determined by a combination of GPA, experience with children, a personal statement, and letters of reference.

Education Diploma in a First Nations Language and Culture (Elementary Years)

The Education Diploma in a First Nations Language and Culture is a minimum 92 credit hour teacher education program that prepares individuals to teach an approved First Nations language and culture at the Elementary Years level.

This program of study has been developed in partnership with the Language Authority for each First Nation. This model reflects the current thinking about building on the rich linguistic and cultural heritage of students to optimize the match between educational theory, children's level of cognitive and social development, and the particular First Nations language and culture. Successful completion of this program of study will lead to a recommendation to the BC Ministry of Education, Teacher Regulation Branch that a Developmental Standard Term Certificate in the specific First Nations Language and Culture be granted. The Education Diploma in a First Nations Language and Culture is designed to educate teachers to combine pedagogical excellence across disciplinary areas with a learner-centered approach to practice. Philosophically, the program is designed around constructivist principles. It emphasizes approaches to practice such as inquiry-based learning, strategies for instruction, integration of language and culture across the curriculum, inclusion of diverse learners and perspectives, and the development of caring and respectful practice.

Programs of study leading to recommendation for this teaching credential are available for Gitksan Language and Culture, Nisga'a Language and Culture, Ts'msyen Language and Culture, and Dakelh / Carrier Language and Culture. The Education Diploma in a First Nations Language and Culture (Gitxsan) has been developed in partnership with the Siwiixo'osxwim Wilnatahl Gitxsanimx Society. The Education Diploma in a First Nations Language and Culture (Nisga'a) has been developed in partnership with the Nisga'a Language Authority of Wilp Wilxo'oskwhl Nisga'a (WWN), and is offered at the WWN campus. The Education Diploma in a First Nations Language and Culture (Ts'msyen Sm'algyax) has been developed in partnership with the Ts'msyen Sm'algyax Language Authority and is offered at the Prince Rupert campus. The Education Diploma in a First Nations Language and Culture (Dakelh / Carrier) has been developed in partnership with the College of New Caledonia and with the Dakelh / Carrier Linguistic Society (Fort St. James) and the Lake Babine Education Authority (Burns Lake) and is offered in Fort St. James and Burns Lake respectively.

Admission Requirements

Students selected for this program of study will be admitted according to the "Undergraduate Admissions" categories, criteria, and processes established by UNBC and specified in the early sections of this Undergraduate Calendar. In addition to the specified entrance requirements, applicants are encouraged to identify their fluency in the specific language (Gitksanimx, Nisga'a, Ts'msyen Sm'algyax, or Dakelh / Carrier language) and their knowledge of Gitksan culture and history, Nisga'a culture and history, Ts'msyen culture and history, or Dakelh / Carrier culture and history. Advanced placement in language

courses may be considered for speakers who are able to demonstrate their fluency in the language.

There are two points of entry to this program of study: following the completion of the Diploma in First Nations Language, or concurrently while completing the required First Nations Studies and general academic coursework. Students must be admitted to this program of study prior to beginning their professional education courses. The Certificate in First Nations Language, and the Diploma in First Nations Language are described in the First Nations Studies section of the Calendar.

Criminal Records Review

In addition to the admission application requirements outlined for admission to UNBC, applicants are required to undergo a criminal record review and provide evidence of this prior to being considered for admission to the Education Diploma in a First Nations Language and Culture (Elementary Years). Refer to Undergraduate Regulations and Policies (Academic Regulation 20) in this Calendar.

Program Requirements

First Nations Studies Credit Hours

The required First Nations Studies credits can be met by completing a Diploma in First Nations Language. Students will need to include the following First Nations Studies language, linguistics and culture courses in their program of study:

Language (33 credit hours):

A First Nations Language: Levels 1-4:

FNST 131-3	A First Nations Language: Level 1
FNST 132-3	A First Nations Language: Level 2
FNST 231-3	A First Nations Language: Level 3
FNTS 232-3	A First Nations Language: Level 4
or Gitxsanimx:	
FNST 143-3	Gitxsanimx: Level 1
FNST 144-3	Gitxsanimx: Level 2
FNST 243-3	Gitxsanimx: Level 3
FNTS 244-3	Gitxsanimx: Level 4
or Nisga'a:	
FNST 139-3	Nisga'a Language: Level 1
FNST 140-3	Nisga'a Language: Level 2
FNST 239-3	Nisga'a Language: Level 3
FNTS 240-3	Nisga'a Language: Level 4
or levels 1-4 in Sr	n'algyax:
FNST 137-3	Tsimshian Language (Sm'algyax): Level 1
FNST 138-3	Tsimshian Language (Sm'algyax): Level 2
FNST 237-3	Tsimshian Language (Sm'algyax): Level 3
FNTS 238-3	Tsimshian Language (Sm'algyax): Level 4
or levels 1-4 in Da	akelh / Carrier:
FNST 133-3	Dakelh / Carrier Language: Level 1
FNST 134-3	Dakelh / Carrier Language: Level 2
FNST 233-3	Dakelh / Carrier Language: Level 3
FNTS 234-3	Dakelh / Carrier Language: Level 4
	FNST 132-3 FNST 231-3 FNST 232-3 or Gitxsanimx: FNST 143-3 FNST 144-3 FNST 243-3 FNST 244-3 or Nisga'a: FNST 139-3 FNST 140-3 FNST 239-3 FNST 239-3 FNST 237-3 FNST 138-3 FNST 237-3 FNST 238-3 or levels 1-4 in Da FNST 133-3 FNST 133-3 FNST 133-3 FNST 134-3 FNST 134-3 FNST 233-3

	or levels 1	1-4 in Tsilhqot'in:
	FNST 145	5-3 Tsilhqot'in Language: Level 1
	FNST 146	6-3 Tsilhqot'in Language: Level 2
	FNST 245	5-3 Tsilhqot'in Language: Level 3
	FNTS 246	6-3 Tsilhqot'in Language: Level 4
and		
FNST	223-3	First Nations Language Immersion*
FNST	321-3	First Nations Advanced Composition and
		Conversation, Level 1
FNST	322-3	First Nations Advanced Composition and
		Conversation, Level 2
FNST	324-3	Advanced First Nations Language Immersion*
FNST	325-3	First Nations Language Mentoring*
FNST	421-3	First Nations Song and Poetry
FNST	422-3	First Nations Speeches and Stories
		edit hours):
	220-3	Introduction to Linguistics
	320-3	The Structure of a First Nations Language
FNST	420-3	Developing Language Materials
Cultur	ro Ctudioo	(9 credit hours):
	161-3	First Nations Culture: Level 1
TIVOT		n: FNST 173-3 Gitxsan Culture: Level 1
		a: FNST 169-3 Nisga'a Culture: Level 1
	-	yax: FNST 167-3 Tsimshian Culture: Level 1
		/ Carrier FNST 163-3 Dakelh / Carrier Culture: Level 1
FNST	162-3	First Nations Culture: Level 2
TIVOT		n: FNST 174-3 Gitxsan Culture: Level 2
		a: FNST 170-3 Nisga'a Culture: Level 2
		yax: FNST 168-3 Tsimshian Culture: Level 2
		/ Carrier FNST 164-3 Dakelh / Carrier Culture: Level 2
FNST	217-3	Contemporary Challenges Facing Aboriginal
	_ 11 0	contomporary original good adding hooriginal

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General Academic Coursework

The required general academic coursework of 18 credit hours can be met with the following courses (some of these credit hours may be completed as part of the Diploma in First Nations Language):

3 credit hours English Composition- (Suggested:

ENGL 170-3 or equivalent)

Communities

3 credit hours English Literature- (Suggested: ENGL 103-3, ENG 120-3, ENGL 210-3, ENGL 260-3 or equivalent)

3 credit hours Mathematics- (Suggested: MATH 190-4 or

3 credit hours Lab Sciences- (Suggested: BIOL 103-3 and BIOL 123-1, or BIOL 110-3 and BIOL 111-1, or equivalent) 6 credit hours of Canadian Studies, including 3 credit hours of Canadian History or Canadian Geography plus 3 credit hours of Canadian Studies (Suggested: FNST 100-3, GEOG 200-3, GEOG 203-3, HIST 210-3, HIST 211-3 or equivalent)

Professional Education Coursework (Gitksanimx and Nisga'a)

EDUC 333-2	Learning, Development and Motivation
EDUC 336-3	Learning and Diversity: Inclusive Classrooms/
	Learning Disabilities
EDUC 341-2	Principles of Inquiry-Based Instruction
EDUC 342-2	Social Dynamics of Classrooms
EDUC 351-2	Curriculum and Instruction: Second Language
EDUC 356-2	Language and Literacy Development
EDUC 446-2	Aboriginal Education: Epistemology
EDUC 390-3	Classroom Practice and Seminar 1
EDUC 391-3	Classroom Practice and Seminar 2

Professional Education Coursework (Ts'msyen Sm'algyax and Nak'azdli Dakelh / Carrier)

EDUC 380-3	Foundations of Education
EDUC 333-2	Learning Development and Motivation
EDUC 341-2	Principles of Instruction Social
EDUC 342-2	Dynamics of Classrooms
EDUC 351-2	Curriculum and Instruction: Second Language
EDUC 356-2	Language and Literacy Development
EDUC 446-2	Aboriginal Education: Epistemology
EDUC 435-2	Learning and Diversity: Inclusive Classrooms
EDUC 390-3	Classroom Practice and Seminar 1
EDUC 392-3	Classroom Practice and Seminar: First Nations
	Language and Culture

Diploma and BEd Academic Regulations

For the purpose of determining eligibility for recommending a teacher candidate for certification by the Ministry of Education, Teacher Regulation Branch, the minimum requirements include successful completion of the Education program with a C+ on each Education course taken while enrolled in the Program. Courses for which a grade of lower than a C+ was received must be repeated.

The School of Education reserves the right at any time to require any teacher candidate to withdraw from UNBC if it believes on consideration of academic, professional fitness or professional conduct that the student is unsuitable for the teaching profession. Unsatisfactory performance in any aspect of the program may be considered reason to require a teacher candidate to withdraw from the Program.

Regular attendance is expected of all teacher candidates in all courses. An instructor can initiate procedures to debar a teacher candidate from attending classes and from final examinations where unexcused absences exceed three hours of scheduled classes in one term.

If re-admission is approved following required or voluntary withdrawal from a practicum and/or program, the teacher candidate will normally be re-admitted on probationary status.

Education

Appeals should first be submitted to the BEd Admissions and Standards Committee. If a teacher candidate is not satisfied with the outcome of that process, the candidate may then file an appeal with UNBC's Senate Committee on Academic Appeals (see "Appeals Process" Academic Regulation 50 under Regulations and Policies). Teacher candidates are not allowed to use 500, or higher, level courses from the Education Program, or any other program to meet degree requirements.

Students who plan to undertake work at other institutions are required to seek prior approval from the Office of the Registrar and the Chair of Education if they wish such courses to be credited toward a BEd degree at UNBC.

Diploma and BEd Teaching Practicum Regulations

All arrangements for school placements are made through the School of Education.

Teacher candidates taking the Classroom Practice and Seminar courses must be prepared to travel to any regional school district. In order to do such travel, teacher candidates should budget for transportation costs. Practica may be arranged in other selected districts. Beyond budgeting for transportation, teacher candidates should budget for other expenses that may be incurred during practica.

Teacher candidates must successfully complete all first-year courses before they will be allowed to proceed to second-year courses and commence their second-year field placements. These requirements include the completion of core assignments designed to link theory and practice.

The UNBC School of Education reserves the right to approve or disapprove any school placement for teacher candidates, to place teacher candidates in schools, and to change any placement assigned to a teacher candidate. The teacher candidate must be informed in writing of the reasons for any required change in placement. UNBC bears no responsibility for the costs associated with a change in placement.

The School of Education is responsible for seeking a sufficient number of school placements to serve the needs of all enrolled teacher candidates. A teacher candidate may be required to withdraw from a Classroom Practice & Seminar course if none of the available schools will accept that particular teacher candidate.

The UNBC School of Education Program reserves the right to provide information to the principal of a school for a practicum placement for a particular teacher candidate where it is deemed necessary for the principal to have the information in order to carry out duties as a principal. The School of Education must inform the principal if concerns have been raised within the Education Program or in a previous practicum placement about a more than usual potential for a negative impact on the quality of the learning and/or working in the classroom and/or school as a result of the presence of the candidate teacher. The Chair or designate must inform the teacher candidate in

writing of the reasons for the concerns giving rise to such notification to the principal.

The dates of the practica will be made known to the teacher candidates at the beginning of each term. Placement locations will be made available as soon as possible after classes have begun.

The expectations of teacher candidates during the practica will be published and distributed to all teacher candidates, Practicum Supervisors, and Cooperating Teachers at the start of each year in the Teacher Candidate Handbook. Regular attendance during the practica is required. Teacher candidates are required to notify the school whenever classroom experience appointments cannot be kept and also inform the Chair or designate and the Practicum Supervisor. Teacher candidates will be disbarred from the Classroom Practice & Seminar course if they have more than three unexcused absences.

All teacher candidates in the program placed in schools for classroom experience are subject to the provisions of the Schools Act, School Regulations, the British Columbia Teachers' Federation (BCTF) Code of Ethics, and any regulation and/or code of behaviour applicable to teachers and staff in the school. Any teacher candidate may be required to withdraw from a classroom experience for violation of any part of the School Act, School Regulations, the BCTF Code of Ethics, or upon written notice from the school principal or the superintendent in the district where the teacher candidate is placed.

Practicum Supervisors or Cooperating Teachers who refuse teacher candidates' continued participation in a practicum experience for misconduct or repeated absence must immediately discuss the matter with the Practicum Placement Coordinator, who shall then either inform the teacher candidate of the conditions under which they may resume participation in the practica or inform the teacher candidate that the Chair of Education or Chair's designate is being advised that the teacher candidate's performance in the classroom experience is considered unsatisfactory by those responsible for supervision of the practicum experience.

Denial and Withdrawal

Teacher candidates will be denied the practica placement if their preparatory course work is considered to be unsatisfactory (e.g., below C+ work, or incomplete work) by the Chair or designate.

Teacher candidates may be required to withdraw from a practicum experience if their performance in their school placement is considered to be unsatisfactory by the Chair or designate (based on written assessments by the Practicum Supervisor and/or Cooperating Teacher).

Teacher candidates seeking voluntary withdrawal from a practicum placement, whether permanent or temporary, must receive permission to do so from the Chair of Education. Teacher candidates should make this decision only after careful consideration of the possible impact on their practicum experience-based assignments.

Failure to give appropriate notice of withdrawal during a practicum placement, without consultation and approval of the Practicum Placement Coordinator, and/or BEd Coordinator, will result in withdrawal from UNBC's Education Program. Teacher candidates who withdraw voluntarily from a practicum placement must notify the Practicum Placement Coordinator in writing at least one week in advance of the commencement of the classroom placement. Teacher candidates who are required to withdraw from a practicum placement must make an appointment to see the Practicum Placement Coordinator and the Chair of Education.

Teacher candidates who have withdrawn for any reason from a Classroom Practice & Seminar course, or who wish to re-enter, or re-take, the course must apply to the BEd Admissions and Standards Committee Chair for re-admission to the course. Teacher candidates should not assume that re-admission would automatically be granted. The number of times a teacher candidate can be re-admitted to Classroom Practice & Seminar courses is limited to once except in cases where there are dire circumstances beyond the teacher candidate's control as set out in the UNBC "Conditions of Academic Standing" (Academic Regulation 49). Teacher candidates will only be re-admitted to a Classroom Practice & Seminar course when, in the opinion of those responsible for the supervision of the previous attempt, there was evidence of significant progress toward meeting the outcomes for the practicum placement. Teacher candidates will not be re-admitted to any single Classroom Practice & Seminar more than once. Teacher candidates will not be re-admitted to a Classroom Practice & Seminar course if they have previously been re-admitted to any other Classroom Practice & Seminar course in any of UNBC's BEd programs.

Part-Time Students in the BEd Program

The Bachelor of Education program at UNBC is a full-time study program. It is expected that all students registered in this program will be enrolled on a full-time basis. However, under exceptional circumstances, where students are unable to fulfill full-time study for family, personal, or health reasons, students may be allowed to continue the program on a part-time basis. Application to continue on a part-time basis must be submitted in writing to the Chair of the School of Education and approved by the Dean of the College of Arts, Social and Health Sciences.

BEd Graduation Requirements

To be eligible for a Bachelor of Education degree the candidate must normally have earned:

- A grade of C+ or better in all Education courses; and,
- A minimum GPA of 2.33 (C+).
- All teachers, administrators and supervisors employed in the
 province's Kindergarten to Grade 12 public school system must
 have a valid Ministry of Education teaching certificate. This
 requirement includes full time, part time and teacher-on-call
 positions. If you would like to work in a BC public school, you
 must apply and provide all documentation to the BC Ministry of
 Education Teacher Regulation Branch for a certificate and you
 must pay an annual practice fee to maintain your certificate.

- The Teacher Qualification Service: Salary categories for teachers are established by the Teacher Qualification Service upon application, and only when a British Columbia teaching credential has already been granted by the BC Ministry of Education, Teacher Regulation Branch. Categories are assigned on the basis of completed years of academic and professional preparation.
- Procedure and Documentation: Application forms for the BC Ministry of Education, Teacher Regulation Branch and the Teacher Qualification Service are available from the School of Education, as well as directly from the agencies or their respective websites (http://www.bcteacherregulation.ca and http://www.tgs.bc.ca).

Post-Baccalaureate Diploma (Curriculum & Instructional Studies and Montessori Education)

Website: www.unbc.ca/education/pbdp

The Post-Baccalaureate Diploma program and courses within it are designed to advance the professional knowledge and skills of practicing K-12 teachers. Diploma requirements are coherent with the BC Teacher Qualification requirement for 30 credits in a focused area of study for an increase in professional certification from level 4 to 5. Admission is on a course by course basis to accommodate teachers who may want to increase their competency or update their knowledge and skills in a particular area of instruction. Flexible admission also allows for teachers to select the variable number of courses required to increase professional standing to the "five plus" category currently administered by some school districts.

Admission

Applicants applying for admittance to the Diploma Program require a four-year (120 credit hours) undergraduate degree from a UNBC-recognized university completed with a cumulative grade point average of 2.0 or better. Applicants must have the ability to study and work in English. An additional requirement for this Post-Baccalaureate Diploma is that students possess a current teaching certificate or are admitted with the approval of the admissions committee.

The number of spaces in each course offered in the Post-Baccalaureate Diploma program is limited; therefore, course registration will be on a first come first served basis until the specified course is full. This program admits new students three times per year, at the start of each term: October 30 for the January Term, April 30 for July/August courses, and June 30 for the September Term.

To accommodate practicing teachers, Diploma courses are offered in the late afternoon or evening, on weekends, and during the summer. It is recommended that students plan to make full use of the Summer Session offerings to complete the Diploma within the ten year time limit. It is recommended that students complete the two compulsory courses early in their program of studies.

Education

Applicants are required to submit proof of a recent criminal records check (within five years). Students are expected to abide by expectations for professional conduct for the teaching profession in British Columbia.

Program Requirements

Completion of a Post-Baccalaureate Diploma is achieved with 30 credits of coursework, including two compulsory courses and eight electives taken entirely from one or the other focus areas. The focus areas offered at this time are Curriculum and Instructional Studies and Montessori Education.

Students may be granted credit for up to 15 credits of upper-division coursework from another recognized institution, provided that such courses have not been associated with the receipt of a degree or diploma.

Required Courses

EDUC 500-3 Teacher Leadership

One of the following:

EDUC 501-3 Action Research in Schools and Classrooms EDUC 502-3 Interpretation and Application of Educational

Research

Elective Courses (Curriculum and Instructional Studies)

EDUC 504-3	Instructional Leadership for Cooperating Teachers (a weekend seminar to follow classroom supervision of extended B.Ed. practicum and to reflect on these mentorship experiences in terms of the instructional leadership literature)
EDUC 521-3	Classroom Assessment Practices
EDUC 523-3	Teaching for Social Responsibility
EDUC 528-3	Numeracy Strategies for Struggling Learners
EDUC 531-3	Applications of Educational Technology
EDUC 533-3	Human Development: Implications for Education
EDUC 534-3	Achievement Motivation
EDUC 535-3	Learning and Diversity: Inclusive Classrooms
EDUC 541-3	Principles of Instruction
EDUC 546-3	First Nations Education
EDUC 551-3	Mathematics Education
EDUC 552-3	Science Education
EDUC 553-3	Social Studies Education
EDUC 554-3	Literacy Strategies for Struggling Learners
EDUC 558-3	Language Arts Education
EDUC 559-3	Second Language Instruction
EDUC 580-3	Visual Arts Across the Curriculum
EDUC 581-3	Performing Arts Across the Curriculum
EDUC 592-3	Special Topics

(no limit as to the number of these courses)
EDUC 593-3 Directed Readings

EDUC 594-3 Self-Directed Professional Development

Elective Courses (Montessori Education)

EDUC 570-3	Montessori Theory
EDUC 571-3	Montessori Curriculum and Instruction: Language
EDUC 572-3	Montessori in Context: Child Development
EDUC 573-3	Montessori Curriculum and Instruction: Scientific
	Literacy
EDUC 574-3	Montessori Curriculum and Instruction:
	Mathematics
EDUC 575-3	Montessori Integrated Cultural Studies and Field
	Study Planning
EDUC 576-3	Montessori Integrated Studies Field Study
EDUC 577-3	Montessori Portfolio

English (BA Program)

Karin Beeler, Professor and Chair Stan Beeler, Professor

Robert Budde, Professor

Dee Horne, Professor

Kevin Hutchings, Professor; Canada Research Chair in Literature,

Culture, and Environmental Studies

Lisa Dickson, Associate Professor Kristen Guest, Associate Professor Maryna Romanets, Associate Professor Blanca Schorcht, Associate Professor Monica Mattfield, Assistant Professor

Website: www.unbc.ca/english

UNBC's English program includes course offerings in Canadian, British, American and International English literatures as well as world literature in English translation, and literary theory. Key areas include First Nations Literature, Canadian Literature, Comparative Literature, Women's Literature, Feminist Criticism and Theory, literature and media technology, and the relationship between literature and other disciplines. Creative writing and other kinds of writing courses are also available. The program encourages interdisciplinarity between literature, cultural studies, and science or technology. Computer literacy is a priority, as is the delivery of courses on the World Wide Web. The interdisciplinary perspective prepares students for a number of graduate or professional programs (e.g. English, Journalism, Creative Writing, Law, Education, Business) or employment in the public or private sectors.

Major in English

The major in English requires students to take eighteen English courses (54 credit hours) at least 30 credit hours of which must be upper-division courses (300 and 400 level) with at least 9 credit hours of these at the 400 level. Students wishing to take more than 66 credit hours in English must obtain written permission from the Department Chair.

The minimum requirement for completion of a Bachelor of Arts with a major in English is 120 credit hours.

Program Requirements

Subject Requirement

The major in English requires students to take 18 courses (54 credit hours) of English or approved ancillary courses and must include:

Introductory ONE of

ENGL 100-3	Intro	duc	ction	to	Lite	erary	Structures
					_		

ENGL 102-3 Introduction to Poetry ENGL 103-3 Introduction to Fiction ENGL 104-3 Introduction to Film Foundational Surveys

BOTH of:

ENGL 211-3 Survey of English Literature I
ENGL 212-3 Survey of English Literature II

Theory ONE of

ENGL 200-3 Gender and Literary Theory

ENGL 300-3 Theory

ENGL 400-3 Contemporary Theory

Lower-Division Requirements

TWO of

ENGL 209-3	Introduction to Television Studies
ENGL 210-3	Women and Literature: A Survey
ENGL 231-3	An Introduction to Canadian Literature
ENGL 280-3	Shakespeare
ENGL 281-3	Introduction to Renaissance Literature
ENGL 282-3	Introduction to Restoration and 18th Century
	Literature
ENGL 283-3	Introduction to Romantic Literature
ENGL 284-3	Introduction to Victorian Literature
ENGL 285-3	Modern British Literature

Upper-Division Requirements

TWO of

1 440 01	
ENGL 309-3	Intermediate Studies in Film or Television
ENGL 320-3	First Nations Literature
ENGL 331-3	Genres in Canadian Literature
ENGL 340-3	Postcolonial Literature
ENGL 350-3	Comparative Literature
ENGL 381-3	Renaissance Literature
ENGL 382-3	Restoration and 18th Century Literature
ENGL 383-3	Romantic Literature
ENGL 384-3	Victorian Literature
ENGL 386-3	19th Century Literature in the US
ENGL 410-3	Contemporary Women's Literature
ENGL 420-3	Special Topics in First Nations Literature
ENGL 430-3	Special Topics in Canadian Literature
ENGL 440-3	Postcolonial Literature I
ENGL 450-3	Special Topics in Comparative Literature
ENGL 483-3	Special Topics in Romantic Literature
ENGL 484-3	Special Topics in Victorian Literature
ENGL 485-3	Special Topics in Modern and Contemporary
	Literature in the United States

PLUS

ENGL 491-3

Upper-Division Requirement

Seven upper-division ENGL courses (21 credit hours) at the 300 or 400 level

Special Topics in Renaissance Literature

Three upper-division ENGL courses (9 credit hours) at the 400 level

Approved Ancillary Courses for a Major in English

A maximum of three ancillary courses (9 credit hours) may be counted towards the English major requirements, but none may be counted towards an English minor.

WMST 304-3	Contemporary Women's Writing in an International Frame
WMST 306-3	Indigenous Women: Perspectives
WMST 309-3	Gender and Film
WMST 311-3	History of Feminism
WMST 401-3	Cultural Studies: Gender, Race and Representation
WMST 411-3	Contemporary Feminist Theories

Students planning to continue on to a graduate degree in English should consult with English faculty and/or the receiving institution to assist them in determining which courses are most appropriate in fulfilling the additional ten courses (30 credit hours) of English subject requirements.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in English and Environmental Studies

The English and Environmental Studies joint major equips students with communication skills and knowledge of environmental issues, regulations and policies. The joint major prepares students to have a positive influence on the environment through written and other forms of expression. This joint major is of particular interest to students who wish to pursue a career in environmental writing, creative non-fiction, science writing and/or journalism.

Program Requirements

Lower-Division Requirement

ENGL104-3	Introduction to Film
ENGL 209-3	Introduction to Television Studies
ENGL 231-3	An Introduction to Canadian Literature
ENGL 283-3	Introduction to Romantic Literature
BIOL 110-3	Introductory Ecology
FNST 100-3	The Aboriginal Peoples of Canada
ENVS 101-3	Introduction to Environmental Citizenship
ENVS 225-3	Global Environmental Change: Science and Policy
GEOG 101-3	Human Geographies of Global Change
PHIL 202-3	Comparative Religion
or FNST 30	3-3 First Nations Religion and Philosophy

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience.

One of:	
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 270-3	Expository Writing
ENGL 271-3	Introduction to Creative Writing
0 (
One of:	
ENGL 200-3	Gender and Literary Theory
ENGL 300-3	Theory
ENGL 400-3	Contemporary Theory
One of:	
ENGL 211-3	Survey of English Literature I
ENGL 212-3	Survey of English Literature II
ENGL 284-3	Introduction to Victorian Literature
ENGL 285-3	Modern British Literature
One of:	
NREM 101-3	Introduction to Natural Resources
	Management and Conservation
GEOG 206-3	Society and Space
INTS 100-3	Introduction to Global Studies

Upper-Division Requirement

The following nine courses (27 credit hours) of environmental courses at the 300 or 400 level:

ENVS 309-3 Gender and Environment		
or HIST 421-3 Topics in Environmental History		
ENVS 326-3 Natural Resources, Environmental Issues and		
Public Engagement		
HIST 360-3 An Introduction to Environmental History		
NREM 303-3 First Nations' Approaches to Resource Manageme	ent	
or FNST 304-3 Indigenous Environmental Philosophy		
NREM 306-3 Society, Policy and Administration		
ENVS 414-3 Environmental and Professional Ethics		
ENVS 440-(2-6) Internship		
or ENGL 444-(2-6) Internship		
GEOG 420-3 Geographies of Environmental Justice		
or GEOG 305-3 Political Ecology		
PSYC 408-3 Environmental Problems and Human Behaviour		
or ORTM 408-3 The Psychology of Recreation and Tourism		

Eight courses (24 credit hours) of English courses at the $300 \ \text{or} \ 400$ level:

One of:	
ENGL 309-3	Intermediate Studies in Film or Television
ENGL 331-3	Genres in Canadian Literature
ENGL 383-3	Romantic Literature
ENGL 384-3	Victorian Literature

Iwo of:	
ENGL 430-3	Special Topics in Canadian Literature
ENGL 431-3	Northern BC Literature
ENGL 480-3	Science Fiction
ENGL 483-3	Special Topics in Romantic Literature
ENGL 486-3	Literature of the Fantastic
ENGL 493-(2-6)	Cultural Studies

Five additional English courses (15 credit hours) are required to ensure the fulfillment of the 24 credit hour upper-division requirement in English. Two courses may be chosen from the following list of English ancillary courses:

WMST 304-3	Contemporary Women's Writing in an
	International Frame
WMST 306-3	Indigenous Women: Perspectives
WMST 309-3	Gender and Film
WMST 401-3	Cultural Studies: Gender, Race and
	Representation
WMST 411-3	Contemporary Feminist Theories

Elective and Academic Breadth

Elective credit hours are required as necessary to ensure a completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). Electives may be at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

Joint Major in English/History

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in English and History is 120 credit hours.

Program Requirements

Lower-Division Requirement

ENGL 211-3	Survey of English Literature I
ENGL 212-3	Survey of English Literature II
HIST 190-3	World History to 1550
HIST 191-3	World History since 1550

One of:

0	
ENGL 100-3	Introduction to Literary Structures
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 104-3	Introduction to Film

One of:

ENGL 200-3	Gender and Literary Theory
ENGL 300-3	Theory
ENGL 400-3	Contemporary Theory

Two of:		
ENGL 210-3	Women and Literature: A Survey	
FNGL 280-3	Shakespeare	

ENGL 280-3	Shakespeare
ENGL 281-3	Introduction to Renaissance Literature
ENGL 282-3	Introduction to Restoration and 18th Century

Literature

ENGL 283-3 Introduction to Romantic Literature
ENGL 284-3 Introduction to Victorian Literature
ENGL 285-3 Modern British Literature

ENGL 381-3 Renaissance Literature

ENGL 382-3 Restoration and 18th Century Literature

ENGL 383-3 Romantic Literature ENGL 384-3 Victorian Literature

ENGL 386-3 19th Century Literature in the United States

Three additional courses (9 credit hours) of History at the 100 or 200 level.

Upper-Division Requirement

Of the thirteen English courses (39 credit hours) required for this degree, at least seven courses (21 credit hours) must be at the 300 and 400 level, with at least two of those seven courses (6 of those 21 credit hours) at the 400 level.

HIST 300-3	Historiography: The Nature of the Historical
	Discipline

Two of:

ENGL 320-3	First Nations Literature
ENGL 331-3	Genres in Canadian Literature
ENGL 340-3	Postcolonial Literature
ENGL 350-3	Comparative Literature
ENGL 410-3	Contemporary Women's Literature
ENGL 420-3	Special Topics in First Nations Literature
ENGL 430-3	Special Topics in Canadian Literature
ENGL 440-3	Postcolonial Literature I
ENGL 450-3	Special Topics in Comparative Literature

Six courses (18 credit hours) in History at the 300 or 400 level.

Five additional English courses (15 credit hours) ensuring fulfillment of the upper-division requirement. Two courses may be chosen from the following list of English ancillary courses:

WMST 304-3	Contemporary Women's Writing in an International
	Frame
WMST 309-3	Gender and Film
WMST 306-3	Indigenous Women: Perspectives
WMST 311-3	History of Feminist Theories
WMST 401-3	Cultural Studies: Gender, Race and Representation
WMST 411-3	Contemporary Feminist Theories

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in English/Political Science

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in English and Political Science is 120 credit hours.

Program Requirements

Lower-Division Requirement

ECON 205-3	Statistics for the Social and Management Sciences
or STAT 24	0-3 Basic Statistics
ENGL 211-3	Survey of English Literature I
ENGL 212-3	Survey of English Literature II
POLS 100-3	Contemporary Political Issues
POLS 200-3	Canadian Government and Politics
POLS 202-3	Canada in Comparative Perspective
POLS 270-3	Political Philosophy: Antiquity to Early Modernity
POLS 290-3	Research and Writing for Political Science

One of:

ENGL 100-3	Introduction to Literary Structures
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 104-3	Introduction to Film

One of:

ENGL 200-3	Gender and Literary Theory
ENGL 300-3	Theory
ENGL 400-3	Contemporary Theory

Two of:

UI.	
ENGL 210-3	Women and Literature: A Survey
ENGL 280-3	Shakespeare
ENGL 281-3	Introduction to Renaissance Literature
ENGL 282-3	Introduction to Restoration and 18th Century
	Literature
ENGL 283-3	Introduction to Romantic Literature
ENGL 284-3	Introduction to Victorian Literature
ENGL 285-3	Modern British Literature

Upper-Division Requirement

Of the thirteen English courses (39 credit hours) required for this joint major, seven courses (21 credit hours)must be at the 300 and/or 400 level, with at least two of those seven courses (6 of those 21 credit hours) at the 400 level.

POLS 303-3	Democracy and Democratization
POLS 370-3	Political Philosophy: Early Modernity to
	Post-Modernity

Two of:

ENGL 320-3	First Nations Literature
ENGL 331-3	Genres in Canadian Literature
ENGL 340-3	Postcolonial Literature
ENGL 350-3	Comparative Literature
ENGL 381-3	Renaissance Literature

ENGL 382-3	Restoration and 18th Century Literature
ENGL 383-3	Romantic Literature
ENGL 384-3	Victorian Literature
ENGL 386-3	19th Century Literature in the United States
ENGL 410-3	Contemporary Women's Literature
ENGL 420-3	Special Topics in First Nations Literature
ENGL 430-3	Special Topics in Canadian Literature
ENGL 440-3	Special Topics in Postcolonial Literature I
ENGL 450-3	Special Topics in Comparative Literature

Five additional English courses (15 credit hours). Up to two of the following ancillary courses (up to 6 credit hours) may be counted among those five additional courses:

WMST 306-3	Indigenous Women: Perspectives
WMST 309-3	Gender and Film
WMST 311-3	History of Feminism
WMST 401-3	Cultural Studies: Gender, Race and Representation
WMST 411-3	Contemporary Feminist Theories

Three additional courses (9 credit hours) of Political Science at the 400 level.

Two additional courses (6 credit hours) of Political Science at the upper division.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in English/Women's Studies

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in English and Women's Studies is 120 credit hours.

Program Requirements

Lower-Division Requirement

WMST 100-3	Introduction to Women's Studies
ENGL 211-3	Survey of English Literature I
ENGL 212-3	Survey of English Literature II

One of:

0110	011	
	ENGL 200-3/	
	WMST 220-3	Gender and Literary Theory
	ENGL 210-3/	
	WMST 221-3	Women and Literature: A Survey
One	of:	
	ENGL 100-3	Introduction to Literary Structures
	ENGL 102-3	Introduction to Poetry
	ENGL 103-3	Introduction to Fiction
	ENGL 104-3	Introduction to Film

6 credit hours of Women's Studies at the 100 or 200 level.

Upper-Division Requirement

WMST 302-3	Women and the Contemporary World
WMST 307-3	Qualitative Research Methods
HIST 311-3	History of Feminism
or WMST 3	311-3 History of Feminism
ENGL 410-3	Contemporary Women's Literature
or WMST 4	20-3 Contemporary Women's Literature

Theory

One of:

ENGL 300-3

ENGL 400-3	Contemporary Theory
One of:	
ENGL 320-3	First Nations Literature
ENGL 331-3	Genres in Canadian Literature
ENGL 350-3	Comparative Literature
ENGL 410-3	Contemporary Women's Literature
ENGL 420-3	Special Topics in First Nations Literature
ENGL 430-3	Special Topics in Canadian Literature
ENGL 440-3	Postcolonial Literature I

Additional Requirements

ENGL 450-3

Two of:

ENGL 280-3	Shakespeare
ENGL 281-3	Introduction to Renaissance Literature
ENGL 282-3	Introduction to Restoration and 18th Centur
	Literature
ENGL 283-3	Introduction to Romantic Literature
ENGL 284-3	Introduction to Victorian Literature
ENGL 285-3	Modern British Literature
ENGL 381-3	Renaissance Literature
ENGL 382-3	Restoration and 18th Century Literature
ENGL 383-3	Romantic Literature
ENGL 384-3	Victorian Literature

Special Topics in Comparative Literature

9 credit hours of English courses at the 300 or 400 level.

At least 15 credit hours selected from the following:

WMST 303-3	Lesbian and Bisexual Lives
WMST 304-3	Contemporary Women's Writing in an International Frame
WMST 306-3/	
FNST 306-3	Indigenous Women: Perspectives
WMST 309-3	Gender and Film
WMST 312-3/	
HIST 312-3	Introduction to the History of Gender
WMST 401-3	Cultural Studies: Gender, Race, and Representation
WMST 410-3	Feminist Political Philosophy
WMST 411-3	Contemporary Feminist Theories
WMST 413-(3-6)/	
FNST 413-(3-6)	Topics in Aboriginal Women

ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3	Women in Organizations
ECON 301-3	Women and the Economy
ENVS 309-3	Gender and Environment
FNST 307-3	Race, Class, Gender, Power
HIST 309-3	Women in Canada
HIST 453-3	Topics in the History of Gender
HIST 454-3	Topics in Women's History
INTS 308-3	Gender and International Studies
NURS 412-3	Women and Health
POLS 403-3	Social and Health Policy and Administration
POLS 434-3	Resource Communities in Transition
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender and Sexuality

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in English

The minor in English requires that students take at least six English courses (18 credit hours), at least four (12 credit hours) of which must be upper-division. A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in English. The minor must include:

One of:

ENGL 200-3	Gender and Literary Theory
ENGL 300-3	Theory
ENGL 400-3	Contemporary Theory

Five English courses selected to ensure a minimum of four courses are completed at the 300 or 400 level.

Fine Arts and Creative Writing Joint Major (BFA Program)

See Calendar entry under Bachelor of Fine Arts

WMST 498-(3-6) Selected Topics

Environmental Programs (BASc, BA, and BSc Programs)

Environmental and ecological problems are of increasing concern to Canadians. In northern British Columbia, the concerns are especially acute in a primarily resource-based economy. The Environmental Programs recognize the complex nature of these issues through the integrated approach contained in the three degree offerings: the Joint UNBC/UBC Bachelor of Applied Science in Environmental Engineering, the Bachelor of Arts in Environmental Studies, and the Bachelor of Science in Environmental Science.

Website: www.unbc.ca/environmental-programs

Environmental Engineering (BASc Program)

Todd Whitcombe, Associate Professor and Chair Stephen Déry, Professor Peter Jackson, Professor Jianbing Li, Professor, and Co-Director Philip Owens, Professor and Endowed Research Chair in Landscape Ecology

Michael Rutherford, Professor Jueyi Sui, Professor Youmin Tang, Professor Ron Thring, Professor, and Co-Director Steve Helle, Associate Professor Belinda Larisch, Adjunct Professor

Website: www.unbc.ca/engineering

Engineers serve society across a wide range of economic sectors, and an increased number of engineering graduates are needed by the province to assure its economic growth and maintain its high quality of life. Therefore, future development decisions in most major sectors of the British Columbia economy must fully integrate environmental and economic factors. Problems in water, air and soil pollution control and remediation, solid waste management, mine waste disposal, and geo-environmental engineering require highly skilled engineers with a solid background in environmental engineering, strong communication skills and the ability to work across disciplines. The program prepares graduates for a wide range of employment opportunities where the technical expertise and problem-solving skills of engineers are needed in conjunction with a strong awareness and understanding of environmental issues and problems. This is the case most particularly for resource industries (e.g., forestry, fisheries, mining, oil and gas, pulp and paper, and the agri-food industry); various government departments and research organizations; and in environmental engineering consulting companies. It is also anticipated that graduates will work in the new environmental economy—areas related to environmental reclamation, remediation and restoration.

The Environmental Engineering Bachelor of Applied Science program is a 4.5 year (nine semester) joint degree between the University of British Columbia and the University of Northern British Columbia. The program is based on a unique collaboration between UNBC and UBC that capitalizes on the strength of UNBC in Environmental Science and the strength of UBC in Engineering. It incorporates complementary elements and expertise from each institution while maintaining the exposure of students to the distinctive character of both institutions. The program starts with a two-vear foundation in mathematics, basic and environmental sciences from UNBC. In the third and fourth years, the program provides a thorough education and training in engineering fundamentals, engineering analysis and engineering design, largely through courses in Civil Engineering and Chemical and Biological Engineering at the University of British Columbia. The final term at UNBC exposes students to practical environmental engineering problems.

The Environmental Engineering program is accredited by the Canadian Engineering Accreditation Board.

Admission Requirements

Admission to the program is limited and is based on academic qualifications and available space. Priority admission will be given to students who meet admission criteria and apply by the deadline of March 1

Applicants from BC and Yukon secondary schools must:

- · Meet UNBC admission requirements, and
- Have an average of at least 75% based on the following four courses: Principles of Math 12 or Pre-calculus 12, English 12 and two provincially examinable Science 12 courses. In addition, applicants must have successfully completed Chemistry 11 in order to meet course prerequisites in the Program. Physics 12 or an equivalent is strongly recommended, as it is a prerequisite for first-year Physics courses in the program. Students who are admitted without the Physics 12 prerequisite may be delayed in their studies as they may not be able to complete the first four semesters of the program in the normal two year time period. Meeting the minimum GPA does not guarantee admission. Under exceptional circumstances the prerequisites may be waived.

Other applicants must demonstrate that they possess qualifications at least equivalent to the BC and Yukon requirement.

Regulations

Unless otherwise specified, the rules and regulations will be those applicable at the institution (UBC or UNBC) at which the students are attending at the time the rules/regulations need to be applied. In the case where the rules and regulations are needed to cover the program as a whole, or where the institution of attendance is not relevant, then the more stringent rules/regulations will be applied. Any academic appeals will be handled using the procedures at the institution where the rules/regulations need to be applied.

Residency

The minimum residency requirement is 90 credits. These may be fulfilled through a combination of courses taken at UNBC and UBC, provided that at least 30 credits are completed at each of the two institutions.

Progression

Progression between years and institutions requires good academic standing in the program at the most recent institution of residence (UNBC or UBC). At UNBC this means a GPA of at least 2.00 or 63%. At UBC this means an average of at least 55%, and passing grades in at least 65% of the credits taken.

Graduation

It is the responsibility of the student to ensure that his/her degree requirements are met. Students must have a good academic standing at both institutions to graduate: a CGPA of at least 2.00 (63%) over all courses taken at UNBC; and an average of at least 55%, and passing grades in at least 65% of the credits taken at UBC. The diploma will carry crests from both granting institutions (UNBC and UBC).

Transfers

Transfers into the program are allowed provided that the prerequisite courses or articulated courses are completed, and space is available in the program. Acceptance of transfers into the program will be based upon GPA, with priority given to those with the highest GPA. The admission GPA for transfer students into the Environmental Engineering program will be assessed on the following four courses or their university transferrable equivalents: Principles of Math 12 or pre-calculus 12, English 12, and two provincially examinable Science 12 courses. In order to be considered for admission into the program transfer students must have at least 75% average based on these four courses or their equivalents. Where both high school and university transfer coursework are provided for each of these four courses the highest GPA for each course will be used. Transfer students must also have an overall cumulative transfer GPA of 2.00, which is based on all their university transferrable coursework. Regardless of the articulated courses transferred, students must satisfy the residency requirement (see above).

Co-operative Education

Co-operative education, available through UBC Engineering Co-op, is an optional but strongly recommended element of the Environmental Engineering program.

Program Requirements

UNBC degree requirements: 90 credit hours
UBC degree requirements: 71 credit hours
Total credits for degree: 161 credit hours

Semester 1 and 2 completed at UNBC

CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
CPSC 110-3	Introduction to Computer Systems and
	Programming
ENGR 110-3	Technical Writing
ENGR 117-3	Engineering Design I
ENGR 151-1	Engineering Tools I
ENGR 152-1	Engineering Tools II

MATH 100-3 Calculus I
MATH 101-3 Calculus II

PHYS 110-4 Introductory Physics I: Mechanics

PHYS 111-4 Introductory Physics II: Waves and Electricity

Three credit hours of humanities and social science courses with subject matter that deals with the central issues, methodologies, and thought processes of the humanities and social science (for example, any ANTH, ENGL, ENVS, FNST, HIST, INTS, NORS, PHIL, POLS, or WMST course that does not principally impart language skills or statistics). GEOG and ENPL courses may qualify with the approval of the Chair.

Semester 3 and 4 completed at UNBC

BIOL 110-3	Introductory Ecology
ENSC 201-3	Weather and Climate
ENGR 210-3	Material and Energy Balances
ENGR 217-3	Engineering Design II
ENGR 220-3	Engineering Chemistry
ENGR 350-3	Fluid Mechanics
ENGR 451-3	Groundwater Hydrology
GEOG 210-3	Geomorphology
MATH 200-3	Calculus III
MATH 220-3	Linear Algebra
MATH 230-3	Linear Differential Equations and Boundary Value
	Problems
STAT 371-3	Probability and Statistics for Scientists and

Engineers

Environmental Engineering

Semester 5 and 6 completed at UBC

Note: Course lists for Semester 5 through 8 completed at UBC are provided for information only. Please refer to the UBC calendar for official requirements.

official requirements.		
Chemical and Biological Engineering		
Thermodynamics I		
Environmental Engineering Laboratory		
Water Pollution Control		
Green Engineering Principles and Applications for		
Process Industries		
Air Pollution Prevention and Control		
Engineering and Sustainable Development		
Soil Mechanics I		
Fluid Mechanics II		
Hydrology and Open Channel Flow		
Groundwater Contamination		
Mining and the Environment		

ENSC 302-3	Low Carbon Energy Development
ENSC 404-3	Waste Management
ENSC 406-3	Environmental Modelling
ENSC 408-3	Storms
ENSC 425-3	Climate Change and Global Warming
ENSC 450-3	Environmental and Geophsycial Data Analysis
ENSC 452-3	Reclamation and Remediation of Disturbed
	Environments
ENSC 453-3	Environmental Resources Management and
	Decision Making
NREM 410-3	Watershed Management

Semester 7 and 8 completed at UBC

CHRE 321-3	iransport Phenomena II
CHBE 459-3	Chemical and Biological Engineering Economics
CIVL 311-4	Soil Mechanics II
CIVL 402-2	Engineering Law and Contracts in Civil Engineering
CIVL 408-3	Geoenvironmental Engineering
CIVL 416-3	Environmental Hydraulics
CIVL 418-3	Engineering Hydrology

Twelve credit hours of technical electives chosen from a constrained list.

Semester 9 completed at UNBC

ENPL 401-3	Environmental Law
ENSC 417-6	Designing Solutions in Environmental Engineering
FNSC 418-3	Environmental Measurement and Analysis

Three credit hours of Social Science or Humanities elective. Three credit hours of elective.

Technical electives available at UNBC for the UBC portion of the curriculum in the UBC/UNBC Joint Environmental Engineering Program

The following UNBC courses may be used to meet a Technical Elective requirement in the UBC portion of the Joint UBC/UNBC Environmental Engineering BASc program. Normally, no more than one course from the list may be used. To qualify towards UBC technical elective requirements, the technical elective must be taken prior to transition to UBC.

School of Environmental Planning (BPI)

Andrew D. Seidel, Professor and Chair Mark Groulx, Assistant Professor Theresa Healy, Adjunct Professor Richard Krehbiel, Adjunct Professor Daniel Milburn, Adjunct Professor Finlay Sinclair, Adjunct Professor Andrew Young, Adjunct Professor Darwin Horning, Lecturer

Website: www.unbc.ca/environmental-planning

The Bachelor of Planning degree provides a broad education in environmental planning. The focus is on understanding the relationship between people and the environment and on reducing the environmental impact of human activities.

The study of planning examines public processes that improve the quality of decisions affecting the environment. Responsible planning integrates various private and public interests and identifies viable, workable options. Planners play a vital role in decision-making processes concerning the future of human settlements, resource management, environmental protection, human health and well-being, economic development, and many other areas. Ultimately, the work of planners becomes part of, or a catalyst to, public policy.

To achieve its purposes, Environmental Planning offers a comprehensive program of courses, such as environmental assessment, ecological design, economic development, First Nations planning, land use planning, and sustainable communities. Each course provides a creative and challenging learning environment for students to tackle today's most contentious issues such as sustainability, climate change, biodiversity, environmental stewardship, and urban sprawl. Environmental Planning offers unique perspectives on a rapidly evolving field of study and solutions for an increasingly complex world.

Environmental Planning is dedicated to upholding professional standards of practice and is accredited by the Canadian Institute of Planners (CIP) and the Planning Institute of British Columbia (PIBC). Accreditation is a system for promoting national standards of education in planning and for recognizing educational institutions for a level of performance, integrity, and quality.

Accreditation benefits students in Environmental Planning in three ways:

- Current students can apply for Student Membership in PIBC;
- Graduates are eligible for Full Membership in PIBC and CIP after only two years of professional planning experience; and
- Employers in the planning field look for students graduating from an accredited planning program, thus significantly improving graduates' job prospects.

Three majors are available to students completing the Bachelor of Planning:

- Northern and Rural Community Planning
- First Nations Planning
- Natural Resources Planning

Planning students complete a set of program requirements totaling 69 credit hours in addition to completing the specialized course requirements for each major.

Program Requirements for all Majors in Planning

Lower-Division General Environmental Planning Requirement

100 Level

ECON 100-3 Microeconomics
ENPL 104-3 Introduction to Planning

One of the following:

ENGL 170-3 Writing and Communication Skills

or POLS 290-3 Research and Writing for Political Science or NRES 100-3 Communications in Natural Resources and

Environmental Studies

200 Level

ENPL 204-3 Principles and Practices of Planning

ENPL 205-3 Environment and Society

ENPL 206-3 Planning Analysis and Techniques
ENPL 207-3 Introduction to Computer Aided Design
ENPL 208-3 First Nations Community and Environmental

Planning

GEOG 210-3 Geomorphology

POLS 200-3 Canadian Government and Politics

One of the following:

GEOG 204-3 Introductory GIS for the Social Sciences or GEOG 300-3 Geographic Information Systems

One of the following:

ECON 205-3 Statistics for the Social and Management Sciences

or STAT 240-3 Basic Statistics

or STAT 371-3 Probability and Statistics for Scientists

and Engineers

Upper-Division General Environmental Planning Requirement

300 Level	
ENPL 301-3	Sustainable Communities: Structure and Sociology
ENPL 303-3	Spatial Planning with Geographical Information Systems
ENPL 304-3	Mediation, Negotiation and Public Participation
ENPL 305-3	Environmental Impact Assessment
ENPL 313-3	Rural Community Economic Development
ENPL 318-3	Professional Planning Practice
ENPL 319-3	Social Research Methods
400 L aval	

400 Level

ENPL 401-3	Environmental Law
ENPL 410-3	Land Use Planning
FNDI /111-3	Planning Theory Pro

ENPL 411-3 Planning Theory, Process and Implementation

ENPL 415-3 Ecological Design

ENVS 414-3 Environmental and Professional Ethics

In addition, students may undertake ENPL 420-1 Research Methodology, ENPL 430-3 Undergraduate Thesis, ENPL 431-3 Professional Report, ENPL 440 (2-6) Internship as part of their electives.

Major Requirements

Students must choose to specialize in one major. All course requirements in the major must be completed.

Major in Northern and Rural Community Planning

The focus of this major is to promote an understanding of the complexity and diversity of environmental problems, to develop an appreciation of community change processes, and to provide planners with knowledge which will improve the quality of the built environment and reduce the impact of human activities on the natural world. The unique planning requirements of smaller communities and rural regions demand a grounding in both physical and social science methods and an understanding of the relationship between northern communities and surrounding rural resource regions. Environmental planning necessitates strategic thought and action combined with knowledge grounded in professional practice. The northern rural and community planning major combines concepts such as bioregionalism, sustainability, and landscape design within the context of physical land use planning, social planning and community economic development.

Northern and Rural Community Planning is the application of environmental planning principles and practices to the often unique social, economic, and ecological issues confronting northern and circumpolar communities in Canada and elsewhere in the northern hemisphere. Successfully addressing these issues requires an appreciation of how and why communities change, an understanding of relationships between northern communities and surrounding rural resource regions, an understanding of the place and function of northern communities and rural regions in the global environment, and a grounding in both physical and social science methods of research and analysis.

Students enrolled in the Northern and Rural Community Planning Major must successfully complete 120 credit hours. Students must ensure that all prerequisites are fulfilled prior to registering in any courses.

Program requirement for all majors in planning: 69 credit hours Major requirement: 15 credit hours Major elective requirement: 18 credit hours General elective requirement: 18 credit hours

The minimum requirement for a Bachelor of Planning with a Major in Northern and Rural Community Planning is 120 credit hours.

Major Requirements

SOCW 201-3

Lower-Division Requirements

BIOL 110-3 Introductory Ecology

One of:

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one	JI:	
	GEOG 100-3	Environments and People: The Geography of
		Natural Hazards
	or GEOG 206-3	Society and Space
Three	e of:	
	ANTH 213-3	Peoples and Cultures
	ENVS 306-3	Human Ecology (regional campus only)
	FNST 100-3	The Aboriginal Peoples of Canada
	GEOG 100-3	Environments and People: The Geography of
		Natural Hazards
	GEOG 101-3	Human Geographies of Global Change
	GEOG 200-3	British Columbia: People and Places
	GEOG 202-3	Economic Geography of Resources and
		Sustainability
	GEOG 206-3	Society and Space
	INTS 100-3	Introduction to Global Studies
	MATH 115-3	Precalculus
	POLS 100-3	Contemporary Political Issues

Introduction to Social Welfare

Upper-Division Requirements

POLS 350-3 Law and Municipal Government

One of:

ENVS 325 - 3	Global Environmental Change: Science and
	Policy
or NREM 306-3	Society, Policy and Administration
or POLS 316-3	Municipal Government and Politics
or POLS 320-3	Canadian Politics and Policy
nf·	

One of:

GEOG 424-3	Social Geography of Northern Communities
or POLS 434-3	Resource Communities in Transition
or POLS 415-3	Comparative Northern Development

Three of:

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	ANTH 316-3	The Social Theory and Structure of
	ANITH 440 (0.0)	Contemporary Canadian Society
	ANTH 413-(3-6)	Environmental Anthropology
	ENVS 325-3	Global Environmental Change: Science
		and Policy
	ENSC 404-3	Waste Management
	ENSC 302-3	Low Carbon Energy Development
	ECON 411-3	Cost Benefit Analysis
	FNST 350-3	Law and Aboriginal Peoples
	GEOG 305-3	Political Ecology
	GEOG 403-3	First Nations and Indigenous Geography
	GEOG 424-3	Social Geography of Northern Communities
	NREM 306-3	Society, Policy and Administration
	POLS 302-3	Canadian Public Administration
	POLS 316-3	Municipal Government and Politics
	POLS 320-3	How Government Works
	POLS 332-3	Community Development
	POLS 351-3	Local Services and Public Policy
	POLS 360-3	Local Government Finance
	POLS 415-3	Comparative Northern Development
	POLS 434-3	Resource Communities in Transition
	SOCW 320-3	Critical Social Policy

Students must ensure that all prerequisites are fulfilled prior to taking the course.

General electives courses comprise of a total of 18 credit hours. Students are encouraged to use the general electives to take a minor offered in Geography and Political Science, First Nations Studies, or other fields associated with community development.

Major in First Nations Planning

First Nation communities have significant and growing demands for qualified planners. As many First Nations move to define land claims in Canada, potentially giving First Nations significant responsibilities for land and community planning, and as others work to build upon existing treaties, the availability of skilled planners becomes essential. However, planning by, and with, First Nations requires specific skills and abilities in the planners, whether or not they themselves are First Nation.

For most First Nation communities few distinctions are made between ecological/environmental planning and planning for social and cultural needs. Cultural and social needs are developed from within, and are grounded in, the ecosystem. First Nations planning must necessarily integrate all; First Nations wish to remain grounded in tradition and seek to move into the future through sound community economic development and skilled land management. Most face significant community development needs, including infrastructure development. housing, and health planning. Students need not just a sound grasp of planning principles, but also an understanding of the protocols, history, social structure, and ecology of Canadian First Nations. Further, cross cultural translation skills, community participation techniques, and a solid grounding in ethics are required.

Students enrolled in the First Nations Planning Major must successfully complete 121 credit hours. Major and elective course requirements must also be met.

Program requirement for all majors in planning: 69 credit hours Major requirement: 19 credit hours Major elective requirement: 18 credit hours General elective requirement: 15 credit hours

The minimum requirement for a Bachelor of Planning with a Major in First Nations Planning is 121 credit hours.

Lower-Division Requirements

BIOL 110-3	Introductory Ecology
FNST 100-3	The Aboriginal Peoples of Canada
FNST 131-3	First Nations Language Level 1
Three of:	

ANTH 213-3	Peoples and Cultures
FNST 161-3	First Nations Culture Level 1
FNST 200-3	Methods and Perspectives in First Nations
	Studies
FNST 203-3	Introduction to Traditional Ecological
	Knowledge
GEOG 100-3	Environments and People: The Geography of
	Natural Hazards
HHSC 102-3	Introduction to Health Sciences II: Rural and
	Aboriginal Issues
MATH 115-3	Precalculus
NREM 210-4	Integrated Resource Management

Upper-Division Requirements

FNST 304 -3	First Nations Environmental Philosophy and Knowledge
FNST 350-3	Law and Indigenous Peoples
ENPL 409-4	Advanced First Nations Community and
	Environmental Planning

Three of:

BIOL 350-3	Ethnobotany
ENVS 325-3	Global Environmental Change: Science
	and Policy
FNST 303-3	First Nations Religion and Philosophy
FNST 305-3	Seminar in First Nations Studies
FNST 407-3	First Nations Perspectives on Race, Class,
	Gender and Power
GEOG 403-3	First Nations and Indigenous Geography
NREM 303-3	First Nations' Approaches to Resource
	Management
ORTM 306-3	Indigenous Tourism and Recreation
POLS 350-3	Law and Municipal Governement
SOCW 455-3	First Nations Governance and Social Policy
SOCW 457-3	Individual and Community Wellness

Of the above lower and upper-division course requirements, students must select a minimum of three FNST courses (9 credit hours).

Students must ensure that all prerequisites are fulfilled prior to registering in any courses.

General electives courses comprise a total of 15 credit hours. Students are encouraged to use the general electives to take a minor offered in First Nations Studies or other courses associated with aboriginal and First Nations issues.

Major in Natural Resources Planning

The major in Natural Resources Planning is designed to provide students with an understanding of the complexities of including the natural and cultural environment in planning decision-making. The major is intended to address both project-level and large-scale environmental planning issues that occur in developments that impact the natural environment.

The objective of this major is to familiarize students with planning and decision-making in a variety of sectors that include provincial land use planning, environmental assessment, watershed planning and integrated resource and environmental management. These areas of planning are characterised by complex and intricate problems that revolve around how to use our natural resources and who should decide. The multidimensional aspects of environmental management include natural and cultural complexity, different desired futures, value differences, assessment and monitoring tools, and integration methods. This major emphasizes an understanding of planning in both the substantive realm (natural and social sciences) and the procedural realm (the process of including people in the decision-making process).

Students enrolled in the Natural Resources Planning Major must successfully complete 120 credit hours. Major and elective course requirements must also be met. Students must ensure that they complete course prerequisites before registering in any course. Students interested in working with biological and environmental aspects of natural resource planning should take BIOL 103/BIOL 123 and BIOL 104/124 as elective courses and BIOL 201 as the ecology elective as they are prerequisite courses for many of the other biological and environmental courses. Furthermore, those students interested in the environmental sciences should also consider taking first- and second-year Chemistry courses as part of the general electives. Students interested in integrated natural resource planning are encouraged to take BIOL 104/124 and a mix of courses in areas of Political Science, First Nations (FNST or ENPL), Environment Sciences (ENSC), Geography and Outdoor Recreation and Tourism Management, and International Studies and Economics.

Program requirement for all majors in planning: 69 credit hours
Major requirement: 17 credit hours
Major elective requirement: 18 - 22 credit hours
General elective requirement: Elective credit hours as necessary to ensure the completion of 120 credit hours.

The minimum requirement for a Bachelor of Planning with a Major in Natural Resource Planning is 120 credit hours.

Lower-Division Requirements

NREM 210 - 4	Integrated Resource Management
GEOG 205 - 3	Cartography and Geomatics

One of:

BIOL 110 -3	Introductory Ecology
or BIOL 201-3	Ecology

Three of:

BIOL 103-3

and BIOL 123-1	Introductory Biology I Laboratory
BIOL 104-3	Introductory Biology II
and BIOL 124-1	Introductory Biology II Laboratory
ENSC 201-3	Weather and Climate
ENSC 202-3	Introduction to Aquatic Systems
FNST 100-3	Aboriginal Peoples of Canada
FNST 203-3	Introduction to Traditional Ecological
	Knowledge
FSTY 205-3	Introduction to Soil Science
GEOG 100-3	Environments and People: The Geography
	of Natural Hazards
INTS 100-3	Introduction to Global Studies
MATH 115-3	Precalculus
NREM 101-3	Introduction to Natural Resources
	Management and Conservation
NREM 203-3	Resource Inventories and Measurements
NREM 204-3	Introduction to Wildlife & Fisheries
ORTM 200-3	Sustainable Outdoor Recreation and Tourism

Introductory Biology I

Upper-Division Requirements

NREM 400-4	Natural Resources Planning
NREM 410-3	Watershed Management

Three of:

e or:	
BIOL 302-3	Limnology
BIOL 411-3	Conservation Biology
ECON 305-3	Environmental Economics
ECON 330-4	Resource Economics
ECON 331-3	Forestry Economics
ECON 411-3	Cost Benefit Analysis
ENPL 409-4	Advanced First Nations Community and
	Environmental Planning
ENSC 302-3	Low Carbon Energy Development
ENSC 308-3	Northern Contaminated Environments
ENSC 312-3	Biometeorology
ENSC 404-3	Waste Management
ENSC 412-3	Air Pollution
ENVS 325-3	Global Environmental Change: Science and
	Policy
ENVS 326-3	Natural Resources, Environmental Issues and
	Public Engagement
FNST 451-3	Traditional Use Studies
GEOG 401-3	Tenure, Conflict and Resource Geography
INTS 307-3	Global Resources
INTS 470-3	Global Environmental Governance
NREM 413-3	Agroforestry
ORTM 300-3	Recreation and Tourism Impacts
ORTM 305-3	Protected Area Planning and Management
ORTM 407-3	Recreation, Tourism, Communities
POLS 344-3	Society, Policy and Administration of Natural
	Resources
or NREM 306-3	Society, Policy and Administration
POLS 350-3	Law and Muncipal Government

Students must ensure that all prerequisites are fulfilled prior to registering in any course.

General elective courses comprise a total of 18 credit hours. Students are encouraged to use the general electives to take a minor offered in areas of Geography and Political Science, First Nations Studies, or other fields associated with community development.

Minor in Planning

The minor in Planning is designed to provide students with an opportunity to acquire a basic knowledge of planning theory and methods. The minor consists of 12 required credits (four designated courses) and six credits from a set of elective courses. A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Planning.

The Minor in Planning requires the completion of 18 credit hours of ENPL Planning Courses, of which 12 credit hours must be at the upper-division level.

Required

ENPL 415-3

ENPL 104-3 ENPL 204-3 ENPL 301-3 ENPL 411-3	Introduction to Planning Principles and Practices of Planning Sustainable Communities: Structure and Sociology Planning Theory, Process and Implementation
Two of:	
ENPL 305-3	B Environmental Impact Assessment
ENPL 318-3	Professional Planning Practice
ENPL 410-3	B Land Use Planning

Ecological Design

Environmental Science (BSc Program)

Todd Whitcombe, Associate Professor and Chair

Stephen Déry, Professor,

Peter Jackson, Professor

Jianbing Li, Professor

Philip Owens, Professor and Endowed Research Chair in Landscape

Ecology

Michael Rutherford, Professor

Juevi Sui, Professor

Youmin Tang, Professor

Ron Thring, Professor

Steve Helle, Associate Professor

Nikolaus Gantner, Adjunct Professor

Tricia Stadnyk, Adjunct Professor

You Qin Wang, Senior Lab Instructor

Website: www.unbc.ca/environmental-science

Major in Environmental Science

The Environmental Science Bachelor of Science degree is an interdisciplinary one in which students take a core curriculum along with an area of specialization. The core curriculum is designed to provide students with knowledge of the fundamental biological, chemical, physical and applied aspects integral to the field of environmental science. In addition, students receive exposure to many of the human dimensions that underlie environmental issues. This approach will ensure a uniform preparation among students and allow for the development of a diversity of expertise necessary to address the complexity of present environmental problems and future unanticipated ones.

The degree has been designed in part to address educational components of the National Occupational Standards (NOS) for Environmental Employment set out by Environmental Careers Organization (ECO Canada). The NOS forms the basis of the Canadian Certified Environmental Practitioner (CCEP) accreditation process of the Canadian Environmental Certification Approvals Board (CECAB).

Undergraduate students are required to take a total of 93 credit hours of program core requirements in addition to an Area of Specialization as indicated below. The Area of Specialization allow students to develop expertise within an area of their interest. The major requires elective credit hours as necessary to ensure completion of a minimum of 126 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Undergraduate Academic Regulation 15). Students needing to improve their communication skills should take ENGL 170-3 Writing and Communication Skills or NRES 100-3 Communication in NRES as an elective. Note that ENGL 170-3 also fulfills the Academic Breadth requirement for Arts and Humanities. Other areas of Academic Breadth are covered in the major.

Program Core Requirements

Lower-Division Requirement

BIUL 103-3	introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laborat

BIOL 123-1 Introductory Biology I Laboratory
BIOL 124-1 Introductory Biology II Laboratory
CHEM 100-3 General Chemistry I

CHEM 101-3 General Chemistry II
CHEM 120-1 General Chemistry Lab I
CHEM 121-1 General Chemistry Lab II

ENSC 111-1 Introduction to Environmental Science

MATH 100-3 Calculus I MATH 101-3 Calculus II

PHYS 100-4 Introduction to Physics I and PHYS 101-4 Introduction to Physics II

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PHYS 110-4 Introductory Physics I: Mechanics

and PHYS 111-4 Introductory Physics II: Waves and Electricity

(PHYS 110-4 and PHYS 111-4 are strongly recommended)

BIOL 201-3 Ecology
BIOL 203-3 Microbiology
ENSC 201-3 Weather and Climate

ENSC 202-3 Introduction to Aquatic Systems

ENSC 250-2 Introduction to Environmental Data Analysis

FSTY 205-3 Introduction to Soil Science
GEOG 205-3 Cartography and Geomatics
GEOG 210-3 Geomorphology

STAT 240-3 Geomorphology

Statistics

or STAT 371-3 Probability and Statistics for Scientists and Engineers

3 credit hours of any 200-level CHEM

Students who are interested in pursuing professional designations should contact the program advisor regarding the correct course sequences required for individual programs as well as the appropriate choice of electives.

Upper-Division Requirements

ENPL 305-3	Environmental Impact Assessment
ENSC 308-3	Northern Contaminated Environments

ENPL 401-3 Environmental Law ENSC 406-3 Environmental Modelling

ENSC 418-3 Environmental Measurement and Analysis

ENSC 440-3 Internship*

or ENSC 499-3 Independent Study

ENSC 450-3 Environmental and Geophysical Data Analysis

ENVS 414-3 Environmental and Professional Ethics

One of the following:

ENVS 225-3	Global Environmental Change: Science and Policy
FNST 304-3	Indigenous Environmental Philosophy
GEOG 307-3	Changing Arctic: Human and Environmental

Systems

GEOG 401-3 Tenure, Conflict and Resource Geography

INTS 307-3 Global Resources

or 3 credit hours of any upper-division ENVS course

Two of the following:

ENGR 451-3 Groundwater Hydrology ENSC 404-3 Waste Management ENSC 412-3 Air Pollution

ENSC 452-3 Reclamation and Remediation of Disturbed

Environments

*Students with extensive experience related to the environment may be waived from this degree requirement with approval from the Program.

Area of Specialization Requirement for BSc (Major) in Environmental Science

Environmental Science majors are required to complete an Area of Specialization satisfying the requirements of any available minor at UNBC as part of their degree. A minor allows students to specialize in a subject area relevant to the advancement, utilization and dissemination of environmental knowledge. Some minors may result in students taking more than the required 126 credit hours in order to obtain the Environmental Science Major. Many minors allow 100-level prerequisite courses and an additional 6 credit hours of other courses to be used for meeting the requirements of both the major and minor. Consult the current Undergraduate Calendar for the requirements of minors available at UNBC.

BSc Honours – Environmental Science

The BSc Honours-Environmental Science provides a higher level of specialization and research experience, especially for students planning to proceed to postgraduate work.

Honours students are required to complete the degree requirements for the BSc Environmental Science Major, with the exception that Honours students must complete an undergraduate thesis chosen from ENSC 430-6 (Undergraduate Thesis), or NRES 430-6 (Undergraduate Thesis) in place of the requirement for ENSC 440-3 (Internship) or ENSC 499-3 (Independent Study). ENSC 440-3 or ENSC 499-3 may be taken by Honours students, but they are not required for the Honours degree. The undergraduate thesis must be conducted under the supervision of a faculty member.

The minimum requirement for a BSc Honours degree is 129 credit hours. Students are responsible to find their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise Honours students. To be admitted to the Honours degree program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum

requirement will not guarantee admission into the Honours program, which will be at the discretion of the Environmental Science Program. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours program.

Minor in Aquatic Science

The minor in Aquatic Science provides students with an opportunity to focus on aquatic processes associated with different water environments, such as rivers, lakes and groundwaters. Emphasis is given to physical, chemical and biological processes that govern the movement, fate and management of water on timescales of seconds to decades.

Students are required to take 35 credit hours. Of these, 14 credit hours are foundational courses in Chemistry, Mathematics, and Physics; 12 credit hours are required aquatic science courses; and 9 credit hours are selected from a list of suggested elective courses. In addition to the 14 credit hours of foundational courses at the 100 level, an additional 6 credit hours of upper-division courses can also be used to meet the requirements of a major or another minor.

Curriculum

Required Courses

CHEM 100-3	General Chemistry I
CHEM 120-1	General Chemistry Lab I

MATH 100-3 Calculus I MATH 101-3 Calculus II

PHYS 100-4 Introduction to Physics I

or PHYS 110-4 Introductory Physics I: Mechanics (PHYS 110-4 is strongly recommended.)

ENSC 202-3 Introduction to Aquatic Systems

BIOL 302-3 Limnology GEOG 310-3 Hydrology

or NREM 410-3 Watershed Management ENGR 451-3 Groundwater Hydrology

Elective Courses

Nine credit hours from the following list:

GEOG 311-3	Drainage Basin Geomorphology
ENIOD OFO O	Florid Madelander

ENGR 350-3 Fluid Mechanics
GEOG 405-3 Fluvial Geomorphology

ENSC 450-3 Environmental and Geophysical Data Analysis

ENSC 454-3 Snow and Ice BIOL 402-3 Aquatic Plants BIOL 406-3 Fish Ecology

*Students must ensure that all prerequisites are fulfilled prior to registering in any course.

Minor in Atmospheric Science

Atmospheric Science, or meteorology, is the study of Earth's atmosphere, weather and climate. The minor in Atmospheric Science provides students with an opportunity to focus on atmospheric processes that occur near Earth's surface. Emphasis is given to physical and chemical processes that govern the development of weather systems on timescales of days and that regulate Earth's climate on timescales of decades.

Students are required to take 32 credit hours. Of these, 14 credit hours are foundational courses in Chemistry, Mathematics, and Physics; 12 credit hours are required atmospheric science courses; and 6 credit hours are selected from a list of suggested elective courses. In addition to the 17 credit hours of foundational courses at the 100 level, an additional 6 credit hours of upper-division courses can also be used to meet the requirements of a major or another minor. NOTE: Some upper-division courses may be taught in alternate years; students should consider this when planning their course schedules.

Required Courses

CHEM 100-3	General Chemistry I
CHEM 120-1	General Chemistry Lab I
ENSC 201-3	Weather and Climate
ENSC 312-3	Biometeorology
ENSC 408-3	Storms
ENSC 425-3	Climate Change and Global Warming
MATH 100-3	Calculus I
MATH 101-3	Calculus II
PHYS 100-4	Introduction to Physics I
or PHYS 11	0-4 Introductory Physics I: Mechanics
(PHYS 110-	4 is strongly recommended.)

Elective Courses*

Six credit hours from the following list

ENSC 412-3 Air Pollution

ENSC 450-3 Environmental and Geophysical Data Analysis

ENSC 454-3 Snow and Ice GEOG 310-3 Hydrology

or NREM 410-3 Watershed Management

*Students must ensure that all prerequisites are fulfilled prior to registering in any course.

Minor in Environmental Science

The minor in Environmental Science offers an introduction to four environmental systems: aquatic, atmospheric, ecological, and terrestrial, as well as pollution and management, with the ability to develop more depth in one or two areas. Students in this minor will gain an exposure to fundamental biological, chemical and physical aspects integral to the field of environmental science.

The minor in Environmental Science requires the completion, from the courses listed below, of 21 credit hours, 12 of which must be at the upper-division level. A maximum of two courses (6 credits hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Environmental Science.

Students must select at least one course from each of the following categories (important: all courses listed for the minor have prerequisites; it is the student's responsibility to ensure that they have the required prerequisites):

Aquatic Systems

BIOL 302-3	Limnology
BIOL 402-3	Aquatic Plants
BIOL 406-3	Fish Ecology
ENGR 350-3	Fluid Mechanics
ENGR 451-3	Groundwater Hydrology
ENSC 202-3	Introduction to Aquatic Systems
ENSC 454-3	Snow and Ice
GEOG 310-3	Hydrology

Atmospheric Systems

ENSC 201-3	Weather and Climate
ENSC 312-3	Biometeorology
ENSC 408-3	Storms
ENSC 412-3	Air Pollution
ENSC 425-3	Climate Change and Global Warming
ENSC 454-3	Snow and Ice

Ecological Systems

BIOL 201-3	Ecology
BIOL 202-3	Invertebrate Zoology
BIOL 203-3	Microbiology
BIOL 210-3	Genetics
BIOL 301-3	Systematic Botany
BIOL 401-3	Plant-Microbial Interactions
BIOL 404-3	Plant Ecology
BIOL 410-3	Population and Community Ecology
BIOL 411-3	Conservation Biology

Terrestrial Systems

	- J - ·
ENGR 451-3	Groundwater Hydrology
ENSC 325-3	Soil Physical Processes and the Environment
ENSC 435-3	Soil Biological Processes and the Environment
ENSC 452-3	Reclamation and Remediation of Disturbed
	Environments
FSTY 205-3	Introduction to Soil Science
GEOG 210-3	Geomorphology
GEOG 311-3	Concepts in Geomorphology
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Quaternary and Surficial Geology
GEOG 412-3	Geomorphology of Cold Regions
GEOG 414-3	Weathering Processes

Environmental Pollution and Management

LIIVII OIIIIIGIILO	ii i ollution and management
ENGR 451-3	Groundwater Hydrology
ENSC 302-3	Low Carbon Energy Development
ENPL 305-3	Environmental Impact Assessment
ENSC 308-3	Northern Contaminated Environments
ENSC 404-3	Waste Management
ENSC 406-3	Environmental Modelling
ENSC 412-3	Air Pollution
ENSC 452-3	Reclamation and Remediation of Disturbed
	Environments
ENSC 453-3	Environmental Resources Management and
	Decision Making
NREM 410-3	Watershed Management

Minor in Soils and the Environment

Processes and their dynamics at the interface between the biosphere, atmosphere, hydrosphere and lithosphere are critical to the regulation of environmental quality from the micro-scale of millimetres to macro-scale climatic conditions. The minor in Soils and the Environment provides students with an opportunity to focus on the Earth's "Critical Zone," the thin outer layer which supports terrestrial life on the planet. The emphasis is on key biological, chemical and physical processes active in soils, and how they influence environmental conditions.

Students are required to take 34 credit hours. Of these, 16 credit hours are prerequisites to FSTY 205 and ENSC 435, 15 credit hours are required soils courses, and 3 credit hours are selected from a list of suggested elective courses. In addition to the 16 credit hours of prerequisite courses at the 100 level, an additional 6 credit hours can also be used to meet the requirements of a major or another minor.

Required Courses

BIOL 103-3	Introductory Biology I
BIOL 123-1	Introductory Biology I Laboratory
BIOL 104-3	Introductory Biology II
BIOL 124-1	Introductory Biology II Laboratory
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
ENSC 307-3	Introduction to Geochemistry
ENSC 325-3	Soil Physical Processes and the Environment
FSTY 205-3	Introductory Soil Science
FSTY 425-3	Soil Formation and Classification
ENSC 435-3	Soil Biological Processes and the Environment

Elective Courses*

Three credit hours from the following list

ENGR 451-3 Groundwater Hydrology ENSC 404-3 Waste Management

ENSC 452-3 Reclamation and Remediation of Disturbed

Environments

FSTY 415-3 Forest Soils

^{*} Students must ensure they have the appropriate prerequisites to take these courses.

Environmental Studies (BA Program)

Kathy Lewis, Professor and Chair Annie Booth, Professor Art Fredeen, Professor Scott Green, Associate Professor Zoë Meletis, Associate Professor

Website: www.unbc.ca/environmental-studies

Major in Environmental Studies

The Bachelor of Arts in Environmental Studies emphasizes a social science and humanities perspective on environmental issues. The program provides a strong philosophical, social and scientific basis for understanding the full diversity of environmental issues. It positions students to be effective agents for mitigation of, and/or adaptation to, environmental change. Understanding Environmental Citizenship is emphasized.

Students must complete the common degree requirements, the requirements of the Area of Specialization and elective credit hours in any subject as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Undergraduate Academic Regulation 15).

Anthropology: A World of Discovery

Program Requirements

Lower-Division Requirement

100 Level ANTH 102-3

or FNST 100-3 The Aboriginal Peoples of Canada
BIOL 110-3 Introductory Ecology
CHEM 110-3 Chemistry of Everyday Life
or CHEM 100-3 General Chemistry I
or PHYS 150-3 Physics for Future Leaders
ENPL 104-3 Introduction to Planning

ENVS 101-3 Introduction to Environmental Citizenship
GEOG 101-3 Human Geographies of Global Change
POLS 100-3 Contemporary Political Issues

Note: CPSC 150-3 (Computer Applications) is recommended for students without computing experience. Students who wish to take the Science, Technology and Society Area of Specialization should take BIOL 103-3/BIOL 123-1 and BIOL 104-3/BIOL 124-1 instead of BIOL 110-3. Students who wish to take the First Nations Area of Specialization should choose FNST 100-3.

200 Level

ENGL 270-3 Expository Writing or ENGL 271-3 Creative Writing

ENVS 225-3 Global Environmental Change: Science and Policy

GEOG 204-3 GIS for the Social Sciences

or GEOG 300-3 Geographic Information Systems

GEOG 205-3 Cartography and Geomatics PHIL 202-3 Comparative Religion

or FNST 303-3 First Nations Religion and Philosophy

Upper-Division Requirement

300 Level

ENPL 319-3 Social Research Methods

ENVS 306-3 Human Ecology

ENVS 309-3 Gender and Environmental Studies

ENVS 326-3 Natural Resources, Environmental Issues and
Public Engagement

NREM 303-3 First Nations' Approaches to Resource Management
or FNST 304-3 Indigenous Environmental Philosophy
or ENPL 208-3 First Nations Community and Environmental

400 Level

ENPL 401-3 Environmental Law

ENVS 414-3 Environmental and Professional Ethics

Planning

ENVS 440-(2-6) Internship

GEOG 401-3 Tenure, Conflict and Resource Geography
GEOG 420-3 Geographies of Environmental Justice

or GEOG 305-3 Political Ecology
NRES 421-1 Professional Writing
and NRES 422-2 Undergraduate Report
or NRES 430-6 Undergraduate Thesis

PSYC 408-3 Environmental Problems and Human Behaviour or ORTM 408-3 The Psychology of Recreation and Tourism

Areas of Specialization

Students must choose one of the following areas of specialization. Courses used to fulfill major requirements above may not be used to satisfy an Area of Specialization requirement.

- 1. Global Environmental Studies
- 2. Communities and Environmental Citizenship
- 3. Natural Resource Management
- 4. Science, Technology and Society
- First Nations

Introduction to Natural Resources Management and

Foundations of Outdoor Recreation and Tourism

Introduction to Traditional Ecological Knowledge

Resource Inventories and Measurements

Environmental Impact Assessment

Low Carbon Energy Development

Sustainable Outdoor Recreation and Tourism

Mediation, Negotiation and Public Participation

Global Environmental Studies

INTS 100-3 Introduction to Global Studies

GEOG 206-3 Society and Space

Choose eight of the following:

Choose eight of	ule following.
GEOG 301-3	Cultural Geography
GEOG 305-3	Political Ecology (if NOT taken as a requirement for
	the major)
GEOG 306-3	Geography of International Development: Places,
	People, Policies and Promises
GEOG 307-3	Changing Arctic: Human and Environmental System
GEOG 426-3	Geographies of Culture, Rights and Power
NORS 101-3	Introduction to Circumpolar North
NORS 311-3	Lands and Environmentsof the Circumpolar North 1
NORS 331-3	Contemporary Issues of the Circumpolar North
ORTM 403-3	International Dimensions of Outdoor Recreation and
	Tourism

Polar Tourism and Recreation

Communities and Environmental Citizenship

Communicion	and Environmental oldzonomp	NREM 333-3	Field Applications in Resource Management
Required		NREM 400-3	Natural Resources Planning
ENPL 301-3	Sustainable Communities: Structure and	ORTM 300-3	Recreation and Tourism Impacts
	Sociology	ORTM 305-3	Protected Areas Planning and Management
GEOG 206-3	Society and Space	ORTM 400-3	Conservation Area Design and Management
GEOG 426-3	Geographies of Culture, Rights and Power	POLS 315-3	Contemporary Issues in the Circumpolar World

POLS 316-3

ORTM 414-3

GEOG 426-3	Geographies of Culture, Rights and Power
Choose six of:	
COMM 100-3	Introduction to Canadian Business
COMM 230-3	Organizational Behaviour
ENPL 205-3	Environment and Society
ENPL 304-3	Mediation. Negotiation and Public Participation
ENPL 313-3	Rural Community Economic Development
FNST 217-3	Contemporary Challenges Facing Aboriginal
	Communities
FNST 407-3	First Nations Perspectives on Race, Class, Gender and Power
GEOG 209-3	Migration and Settlement
GEOG 305-3	Political Ecology
GEOG 308-3	Environments of Health and Care
ORTM 100-3	Foundations of Outdoor Recreation and Tourism
ORTM 200-3	Sustainable Outdoor Recreation and Tourism
ORTM 407-3	Recreation, Tourism and Communities

Municipal Government and Politics

Science, Technology, and Society

Natural Resource Management

Field Skills

Conservation

pre-requisites.

Required NREM 100-3

NREM 101-3

NREM 210-3

ORTM 100-3

Choose one of: FNST 203-3

NREM 203-3

ORTM 200-3

Choose four of:

ENPL 304-3

ENPL 305-3

ENSC 302-3

Students should note that some of these courses have pre-requisites.

It is the student's responsibility to ensure they have completed these

Integrated Resource Management

Students should note that some of these courses have pre-requisites. It is the student's responsibility to ensure they have completed these pre-requisites.

Required BIOL 103-3

NREM 333-3

BIOL 103-3 BIOL 123-1 BIOL 104-3 BIOL 124-1	Introductory Biology I Introductory Biology I Laboratory Introductory Biology II Introductory Biology II Laboratory
BIOL 201-3	Ecology
Choose seven of:	
BIOL 304-3	Plants, Society and the Environment
BIOL 333-3	Field School
ENSC 201-3	Weather and Climate
ENSC 202-3	Introduction to Aquatic Systems
ENPL 303-3	Spatial Planning with Geographical Information
	Systems (GIS)
ENSC 308-3	Northern Contaminated Environments
ENSC 404-3	Waste Management
ENSC 425-3	Climate Change and Global Warming
FSTY 205-3	Introduction to Soil Science
INTS 100-3	Introduction to Global Studies

Field Applications in Resource Management

First Nations

Choose at least one FNST course and two additional courses from the

following: ANTH 206-3

Ethnography in Northern BC

FNST 217-3 Contemporary Challenges Facing Aboriginal

Communities

FNST 249-3 Aboriginal Resource Planning

GEOG 206-3 Society and Space

Choose six of: BIOL 350-3

Ethnobotany

ENPL 208-3 First Nations Community and Environmental

Planning

FNST 280-3 Aboriginal Medicines I - Harvesting and

Preservation

FNST 300-3 Research Methods in First Nations Studies FNST 303-3 First Nations Religion and Philosophy FNST 304-3 Indigenous Environmental Philosophy

FNST 451-3 Traditional Use Studies GEOG 301-3 Cultural Geography

GEOG 403-3 First Nations and Indigenous Geography

HIST 390-3 Aboriginal People in Canada

NREM 303-3 First Nations Approach to Resource Management

ORTM 306-3 Indigenous Tourism and Recreation

Electives and Academic Breadth

Elective credit hours are required as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15). Electives may be at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

Major in Environmental Studies (Okanagan Diploma in Environmental Studies Degree Completion)

This 60 credit-hour program of study is available only to students from Okanagan College with a diploma in Environmental Studies (Environmental Management Option or Interdisciplinary Environmental Arts Option).

If the diploma in Environmental Studies is completed, with the course choices noted*, the completion of the following courses through UNBC will result in the completion of the BA in Environmental Studies.

*NOTE: Students must take Okanagan College's PHIL 251
Environmental Ethics, WMST 222 Ecofeminism and GEOG 210
Introduction to Environmental Issues as part of their course choices at Okanagan College, or additional UNBC courses meeting these requirements will be required.

Degree requirements: Diploma in Environmental Studies from Okanagan College, minimum Cumulative GPA of 2.00, plus 36 credit hours.

Area of focus: 24-29 credit hours

Elective credit hours in any subject as necessary to ensure completion of a minimum of 60 credit hours at UNBC.

Curriculum

Lower-Division Requirement

*BIOL 110-3	Introductory Ecology
or POLS 10	00-3 Contemporary Political Issues
ENPL 104-3	Introduction to Planning
ENVS 101-3	Introduction to Environmental Citizenship
ENVS 225-3	Global Environmental Change: Science and Policy

*Students who have completed the Interdisciplinary Arts diploma option should take BIOL 110, and students who have completed the Environmental Management diploma option should take POLS 100.

Upper-Division Requirement

300 Level

ENVS 326-3 Natural Resources, Environmental Issues and

Public Engagement

NREM 303-3 First Nations' Approaches to Resource Management

or FNST 304-3 Indigenous Environmental Philosophy or ENPL 208-3 First Nations Community and Environmental Planning

400 Level

ENPL 401-3 Environmental Law ENVS 440-3 Internship

GEOG 401-3 Tenure, Conflict, and Resource Geography
GEOG 424-3 Social Geography of Northern Communities

Total: 33 credits

Students must complete an Area of Specialization. Based on what has been completed through the Diploma, required Area of Specialization credits may be reduced by six credit hours (with the exception of the Natural Resource Management Area of Specialization).

Area of Specialization

Students must choose one of the following areas of specialization.

- 1. Global Environmental Studies
- 2. Communities and Environmental Citizenship
- 3. Natural Resource Management
- 4. Science, Technology and Society
- 5. First Nations

Courses used to fulfill major requirements above may not be used to fulfill an Area of Specialization requirement.

English and Environmental Studies Joint Major

See Calendar entry under English.

Joint Major in Environmental Studies and Political Science

The Joint Major in Environmental Studies and Political Science is for students who want both a broad understanding of environmental issues and the political knowledge needed to respond to those issues.

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Environmental Studies and Political Science is 120 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

ANTH 102-3 Anthropology: A World of Discovery The Aboriginal Peoples of Canada or FNST 100-3 Introductory Ecology BIOL 110-3 Introduction to Planning ENPL 104-3 ENVS 101-3 Introduction to Environmental Citizenship ENVS 225-3 Global Environmental Change: Science and Policy GEOG 101-3 Human Geographies of Global Change Introduction to Global Studies INTS 100-3 POLS 100-3 Contemporary Political Issues GEOG 204-3 Introduction to GIS for the Social Sciences or GEOG 205-3 Cartography and Geomatics GEOG 206-3 Society and Space Canadian Government and Politics POLS 200-3 POLS 202-3 Canada in Comparative Perspective POLS 270-3 Political Philosophy: Antiquity to Early Modernity

Upper-Division Requirement

ENVS 306-3 Human Ecology Gender and Environmental Studies ENVS 309-3 or GEOG 305-3 Political Ecology Geographies of Environmental Justice or GEOG 420-3 ENVS 326-3 Natural Resources, Environmental Issues and **Public Engagement** FNST 304-3 Indigenous Environmental Philosophy First Nations' Approaches to Resource or NREM 303-3 Management NREM 306-3 Society, Policy and Administration or POLS 344-3 Society, Policy and Administration of Natural Resources POLS 302-3 How Government Works Canadian Politics and Policy or POLS 320-3 POLS 303-3 Democracy and Democratization

Political Philosophy: Early Modernity to

Post-Modernity

Theories of Justice

ENPL 401-3 Environmental Law

ENVS 440-(2-6) Internship

or POLS 440-3 Internship I

ENVS 414-3 Environmental and Professional Ethics

ORTM 408-3 The Psychology of Recreation and Tourism or PSYC 408-3 Environmental Problems and Human Behaviour

POLS 400-(3-6) Classics in Political Philosophy or POLS 472-3 Seminar in Political Philosophy POLS 413-3 Democracy and Diversity or POLS 415-3 Comparative Northern Development

One of the following:

NRES 421-1 Professional Writing and NRES 422-2 Undergraduate Report or

NRES 430-6 Undergraduate Thesis

Elective and Academic Breadth

Students take electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours. This includes taking any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

POLS 370-3

or POLS 372-3

Minor in Environmental Studies

The minor in Environmental Studies offers an opportunity for students in other disciplines to learn how individual lives are connected with environmental systems, and to gain understanding and perspective on key environmental issues. A maximum of two courses (6 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Environmental Studies.

The minor in Environmental Studies requires the completion of 18 credit hours, 12 of which must be at the upper-division level.

Required

ENVS 101-3	Introduction to Environmental Citizenship
ENVS 225-3	Global Environmental Change: Science and Policy
ENVS 414-3	Environmental and Professional Ethics

Three of:

E UI.	
ENPL 301-3	Sustainable Communities: Structure and Sociology
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ENPL 401-3	Environmental Law
ENVS 309-3	Gender and Environment
ENVS 326-3	Natural Resources, Environmental Issues and
	Public Engagement
FNST 304-3	Indigenous Environmental Philosophy
GEOG 305-3	Political Ecology
GEOG 401-3	Tenure, Conflict and Resource Geography
GEOG 420-3	Geographices of Environmental Justice
NREM 303-3	First Nations' Approaches to Resource
	Management
ORTM 408-3	The Psychology or Recreation and Tourism
PSYC 408-3	Envrionmental Problems and Human
	Rehaviour

Minor in Global Environmental Change

The Global Environmental Change minor offers students a well-rounded perspective on global change issues. The minor encompasses the science of global change and change predictions, the political realities of environmental change and the way policy intersects with science.

The Global Environmental Change minor requires the completion of 21 credit hours, 12 of which must be at the upper-division level.

A maximum of two courses (6 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for the Global Environmental Change minor.

Students must complete ENVS 225-3 and at least 9 credit hours from each of the two lists of courses indicated below for a total of 21 credit hours overall.

Required

BIOL 110-3

Introductory Ecology

Three of:

or BIOL 201	1-3 Ecology
BIOL 404-3	Plant Ecology
ENSC 201-3	Weather and Climate
ENSC 308-3	Northern Contaminated Environments
ENSC 312-3	Biometeorology
ENSC 408-3	Storms
ENSC 412-3	Air Pollution
ENVS 306-3	Human Ecology
GEOG 100-3	Envrironments and People: The Geography of
	Natural Hazards
GEOG 432-3	Remote Sensing
PHYS 307-3	Selected Topics in Environmental Physics

Three of

e of:	
ECON 305-3	Environmental Economics and Environmental Policy
ENPL 205-3	Environment and Society
ENPL 301-3	Sustainable Communities: Structure and Sociology
ENPL 305-3	Environmental Impact Assessment
ENPL 401-3	Environmental Law
GEOG 305-3	Political Ecology
GEOG 401-3	Tenure, Conflict and Resource Geography
GEOG 420-3	Geographies of Environmental Justice
HIST 360-3	An introduction to Environmental History
HIST 421-3	Topics in Environmental History
INTS 100-3	Introduction to Global Studies
INTS 300-3	International Organization
ORTM 200-3	Sustainable Resource Recreation and Tourism
POLS 100-3	Contemporary Political Issues
POLS 344-3	Society, Policy and Administration of Natural
	Resources
PSYC 408-3	Environmental Problems and Human

Behaviour

Bachelor of Fine Arts (Fine Arts and Creative Writing) (BFA Program)

Karin Beeler, Professor and Chair
Robert Budde, Professor
Dee Horne, Professor
Kevin Hutchings, Professor; Canada Research Chair in Literature,
Culture, and Environmental Studies
Lisa Dickson, Associate Professor
Kristen Guest, Associate Professor
Maryna Romanets, Associate Professor
Blanca Schorcht, Associate Professor

Website: www.unbc.ca/fine-arts

The Joint Degree in Fine Arts and Creative Writing is offered through a partnership between the University of Northern British Columbia and Emily Carr University of Art & Design.

The degree is an interdisciplinary four-year joint-degree program between the two universities that connects creative writing and studio practice. Courses within the program offer students the opportunity to develop applied, conceptual, and theoretical skills.

The program begins in September of each year and the application deadline is February 1. Anyone seeking information about the application process should contact the UNBC Office of the Registrar. Students who want help regarding course selection are encouraged to contact the UNBC Student Advisor.

The UNBC/ECU joint degree in Fine Arts and Creative Writing is an interdisciplinary project-based degree that links creative writing and studio practice within a critical context. Studio courses within the degree ensure that students establish foundational skills during their first year, and that they build expertise within several different disciplines in their second and third years. The fourth year of study focuses on work in an independent studio environment. Concurrently, academic courses in theory and creative writing provide a theoretical basis of understanding that enhances and informs studio experience. Although intended to support students in central northern BC, the unique character of this program may prove to be attractive for students from elsewhere in Canada and around the world. Such exposure will not only allow students to develop and combine a significant range of artistic abilities, it will also cultivate highly transferable skills. While many graduates may elect to pursue careers as practicing artists, others may choose to apply for graduate degrees in English or Fine Arts; to apply for professional degrees, such as law or education, requiring highly developed critical thinking skills; to seek employment in areas such as graphic design, web/computer design, and information based industries.

Students must take 120 credit hours, whether directly or by transfer, split equally between the University of Northern British Columbia and Emily Carr University of Art and Design. Students may elect to complete a portion of the required courses at the ECU's main campus during the summer months. All costs associated with student travel and stay at ECU are the responsibility of the student.

Admission Requirement

Admission to the Bachelor of Fine Arts joint degree is competitive by direct entry to UNBC based on academic qualifications, portfolio, and available space. Priority admission will be given to students who meet admission criteria and apply by the deadline of February 01. Applications received after the deadline may be reviewed based on available space in the program.

Applicants from BC and Yukon secondary schools must:

- meet the admission requirements as specified in the Admissions section of the UNBC Undergraduate Calendar with an admission average of at least 67%, and
- submit a portfolio that includes ten examples of studio art and five pieces of creative writing. There will be sessions throughout the year for students to learn how to prepare a portfolio. For dates and times, please click on events on the English Program home page.

Other applicants must demonstrate that they possess qualifications at least equivalent to the BC and Yukon requirement.

Application of Academic Regulations

On a semester-by-semester basis, students are subject to the Academic Regulations in place at the institution to which their course numbers are designated (ECU or UNBC or both). Grading, for courses bearing their institutional designation, is by the grading scales of each institution respectively.

Transfer Credit and Residency

Transfer credit and/or advanced standing may be awarded for course work completed at other recognized institutions, and will be assigned by the two institutions in conformity with their Academic Regulations. The minimum residency requirement for graduation is 30 credit hours each at UNBC and ECU.

Graduation

It is the responsibility of the student to ensure that his/her degree requirements are met. Students must have a CGPA of at least 2.0 (63%) over all courses at both institutions to graduate.

Curriculum

Program Requirements

In order to meet the graduation requirements for a BFA, students must successfully complete the following requirements consisting of 120 credit hours. Students may count no more than 60 credit hours from each of UNBC and ECU towards the degree. For ECU course descriptions, please refer to the following URL: www.ecuad.ca/programs/courses

Please Note: Many of the ECU courses are provided on-line only. For further information, contact the Student Advisor. Courses marked with an asterisk (*) may be available to be taken on-site at Emily Carr during the summer in advance of the semester offering.

Foundation (First) Year

ECU Courses

FNDT 106-3	Drawing and 2-Dimensional Language
FNDT 108-3	Creative Processes (on-line)
FNDT 109-3	Visual Communication (on-line)
AHIS 102-3	Visual Culture (on-line)
AHIS 103-3	Visual Culture II (on-line)

UNBC Courses

One of:

ENGL 100-3 Introduction to Literary Structures
ENGL 102-3 Introduction to Poetry
ENGL103-3 Introduction to Fiction
ENGL 104-3 Introduction to Film
ENGL 170-3 Writing and Communication Skills

and 12 elective credit hours

Second Year

ECU Courses

AHIS 210-3 Art and Culture

12 Open Studio credit hours (200 level) selected from across Emily Carr University in any combination of 3 or 6 credit hours.

UNBC Courses

ENGL 271-3 Introduction to Creative Writing

6 credit hours from:

ENGL 205-3 Fiction

ENGL 210-3 Women and Literature ENGL 270-3 Expository Writing

6 elective credit hours

Third Year

ECU Courses

HUM 311-3 Visual Art Seminar

9 open studio credit hours (300 level) selected from across Emily Carr University in any combination of 3 or 6 credit hours

3 AHIS/DHIS/MHIS credit hours (300/400 level)

UNBC Courses (Third + Fourth Year: 30 credit hours)

ENGL 470-3	Creative Writing – Poetry
ENGL 471-3	Creative Writing – Fiction and Creative Non-Fiction
ENGL 472-3	Creative Writing – Drama and Scriptwriting
ENGL 493-3	Cultural Studies

One of:

ENGL 300-3 Theory
ENGL 400-3 Contemporary Theory

15 credit hours 300/400 elective courses

Fourth Year

ECU Courses

HUM 411-3 Written Project

3 AHIS/DHIS/MHIS credit hours (300/400 level) 9 Open Studio credit hours

UNBC Courses

(See above for Third + Fourth Year Requirements)

First Nations Studies (BA Program)

Margaret Anderson, Professor Emerita Antonia Mills, Professor Emerita

Gary Wilson, Professor and Chair
Fyre Jean Graveline, Professor
Margo Greenwood, Professor
Ross Hoffman, Associate Professor
Blanc Schorcht, Associate Professor
Agnieszka (Agnes) Pawlowska-Mainville, Assistant Professor
Tannis Reynolds, Assistant Professor
Rheanna Robinson, Assistant Professor
Judith Thompson, Assistant Professor
Tina Fraser, Adjunct Professor
Earl Henderson, Adjunct Professor
Travis Holyk, Adjunct Professor
Deanna Nyce, Adjunct Professor
Titilope Kunkel, Senior Lab Instructor

Website: www.unbc.ca/first-nations-studies

First Nations Studies takes the points of view of First Nations people and communities as the starting point for description and analysis, and contextualizes issues from this perspective. Courses in First Nations Studies will re-orient students to question the underlying assumptions of everyday understanding and will develop clarity in thought and presentation critical to advanced study.

First Nations Studies is a valuable part of any good undergraduate education in the contemporary world; it is an appropriate undergraduate major for students aspiring to careers in education, business, public administration, law, communications, cultural property management, social services, health care delivery and administration, and many other fields. With an undergraduate major in First Nations Studies students may apply for admission to graduate programs in several academic disciplines, and to many professional programs. Students intending to apply for graduate or professional programs should ensure that their programs include all required prerequisites.

Major in First Nations Studies

A major in First Nations Studies requires students to take 48 credit hours of First Nations Studies, at least 21 credit hours of which must be upper-division courses. Those courses from the offerings of other programs with content focused on First Nations are designated as approved ancillary courses for a major in First Nations Studies, and may be included among the 48 credit hours required for a major (for example HIST 390-3 [Aboriginal People in Canada]). Students may not take more than 60 credit hours of First Nations Studies without written permission from the Chair of the Department of First Nations Studies program. After the lower division requirements have been met, all students majoring in First Nations Studies, must take FNST 300-3 (Research Methods in First Nations Studies), and FNST 440-3 (Internship in First Nations Studies) plus eighteen credit hours of 300- or 400- level First Nations Studies courses or approved ancillary

courses for the major in First Nations Studies.

This structure permits each student to design a program emphasizing various aspects of First Nations Studies such as contemporary political issues, languages and cultures, etc.

The minimum requirement for completion of a Bachelor of Arts with a major in First Nations Studies is 120 credit hours.

Program Requirements

Lower-Division Requirements

100 and 200 Level

FNST 100-3 The Aboriginal Peoples of Canada FNST 200-3 Perspectives in First Nations Studies

Any one of the following culture or language courses:

FNST 131-3	A First Nations Language: Level 1
FNST 132-3	A First Nations Language: Level 2
FNST 133-3	Dakelh / Carrier Language: Level 1
FNST 134-3	Dakelh / Carrier Language: Level 2
FNST 135-3	Haisla Language (X-a'islak'ala): Level 1
FNST 136-3	Haisla Language (X-a'islak'ala): Level 2
FNST 137-3	Tsimshian Language (Sm'algyax): Level 1
FNST 138-3	Tsimshian Language (Sm'algyax): Level 2
FNST 139-3	Nisga'a Language: Level 1
FNST 140-3	Nisga'a Language: Level 2
FNST 161-3	A First Nations Culture: Level 1
FNST 162-3	A First Nations Culture: Level 2
FNST 163-3	Dakelh / Carrier Culture: Level 1
FNST 164-3	Dakelh / Carrier Culture: Level 2
FNST 167-3	Tsimshian Culture: Level 1
FNST 168-3	Tsimshian Culture: Level 2
FNST 169-3	Nisga'a Culture: Level 1
FNST 170-3	Nisga'a Culture: Level 2
FNST 171-3	Métis Studies: Level 1
FNST 172-3	Métis Studies: Level 2

Upper-Division Requirement

300 Level

FNST 300-3 Research Methods in First Nations Studies

400 Level

FNST 440-3 Internship in First Nations Studies

Eighteen credit hours of 300- or 400-level First Nations Studies courses or approved ancillary courses for the major in First Nations Studies.

Subject Requirement

Twenty-one credit hours of First Nations Studies or approved ancillary courses at any level.

Elective and Academic Breadth

Upper-division electives to meet UNBC residency requirement.

Electives at any level in any subject to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Approved Ancillary Courses for a Major in First Nations Studies

This list is reviewed annually by the Department of First Nations Studies. Approved ancillary courses are those courses from other disciplines with content focused on First Nations. The following courses are included, and may be counted towards the required courses for a major in First Nations Studies.

ANTH 206-3	Ethnography in Northern British Columbia
ANTH 404-3	Comparative Study of Indigenous Peoples of
	the World
ANTH 407-3	British Columbia Ethnography
ANTH 409-3	British Columbia Archaeology
BIOL 350-3	Ethnobotany
ENGL 320-3	First Nations Literature
ENGL 420-3	Special Topics in First Nations Literature
GEOG 403-3	First Nations and Indigenous Geography
HHSC 471-3	Health and Chronic Disease Management
HIST 215-3	Global History of Indigenous People
HIST 303-3	British Columbia
HIST 390-3	Aboriginal People in Canada
HIST 391-3	Aboriginal People in the United States
HIST 456-3	Topics in Cultural Encounters
NREM 303-3	First Nations' Approaches to Resource Management
NURS 205-3	Introduction to First Nations Health
NURS 422-3	First Nations Health and Nursing
NURS 498-3	Special Topics in Nursing
POLS 311-3	Russian Politics and Society
POLS 412-3	Comparative Aboriginal State Relations
SOCW 455-3	First Nations Governance and Social Policy
SOCW 456-3	Family Caring Systems
SOCW 457-3	Individual and Community Wellness
WMST 306-3	Indigenous Women: Perspectives
WMST 413-(3-6)	Topics in Aboriginal Women's Studies

Joint Major in First Nations Studies/ Women's Studies

The First Nations Studies/Women's Studies Joint Major will equip students to understand the role of women in First Nations societies, political and social institutions, and economies. The degree ought to be particularly attractive to students who intend to pursue a career in education, business, public administration, communications, social services, and many other fields.

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in First Nations and Women's Studies is 120 credit hours.

Program Requirements

FNST 100-3	The Aboriginal Peoples of Canada
FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 302-3	First Nations Health and Healing
FNST 305-3	Seminar in First Nations Studies
FNST 306-3/	
WMST 306-3	Indigenous Women: Perspectives
FNST 413-3/	
WMST 413-3	Topics in Aboriginal Women's Studies
WMST 100-3	Introduction to Women's Studies
WMST 302-3	Women and the Contemporary World

At least three additional credit hours of 100-level First Nations in a culture or language.

At least six additional credit hours of Women's Studies at the 100 or 200 level.

Upper-Division Requirement

At least eighteen o	credit hours selected from the following:
WMST 303-3	Lesbian and Bisexual Lives
WMST 304-3	Contemporary Women's Writing in an Internationa
	Frame
WMST 309-3	Gender and Film
WMST 312-3/	
HIST 312-3	Introduction to the History of Gender
WMST 401-3	Cultural Studies: Gender, Race, and
	Representation
WMST 410-3	Feminist Political Philosophy
WMST 411-3	Contemporary Feminist Theories
WMST 420-3/	
ENGL 410-3	Contemporary Feminist Literature
WMST 498-(3-6)	•
ANTH 401-3	Anthropological Perspectives on
	Inequality
ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3	Women in Organizations
ECON 301-3	Women and the Economy
ENVS 309-3	Gender and Environment
FNST 407-3	Race, Class, Gender, Power
HIST 309-3	Women in Canada
HIST 453-3	Topics in the History of Gender
HIST 454-3	Topics in Women's History
INTS 308-3	Gender and International Studies
NURS 412-3	Women and Health
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender and Sexuality

At least fifteen additional credit hours of First Nations 300-400-level courses.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in First Nations Studies

The minor in First Nations Studies allows students to learn about the field, and to combine a minor concentration in FNST with a major concentration in another area. Students wishing to develop a particular focus could select a set of courses, for example on aboriginal issues, aboriginal languages, and/or aboriginal cultures (Nisga'a, Métis or Dakelh / Carrier). Other combinations are possible with the guidance of the undergraduate student advisor.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in First Nations Studies. A maximum of two courses from the list of Approved Ancillary Courses for a Major in First Nations Studies can be used to fulfill the requirements of the First Nations minor.

The minor requires completion of 18 credit hours (six courses):

FNST 100-3 The Aboriginal Peoples of Canada

Three credit hours of First Nations Studies at any level.
Twelve credit hours of 300 or 400 level First Nations Studies.

Minor in Indigenous Ecological Knowledge

The minor in Indigenous Ecological Knowledge assists students to gain an understanding of the unique ways that Indigenous Peoples know and understand the world. This minor prepares students to engage First Nations in collaborative processes that include traditional ways of living and knowing, environmental philosophies, and aboriginal governance.

The minor in Indigenous Ecological Knowledge requires the completion of a minimum of 21 credit hours of study, of which 12 must be at the upper division. A maximum of two courses (6 credit hours) used to fulfil the requirements for a major, or another minor, may also be used to fulfil requirements for this minor. It is the student's responsibility to ensure that they have the required prerequisites.

Required

FNST 100-3	The Aboriginal Peoples of Canada
FNST 203-3	Introduction to Traditional Ecological Knowledge
FNST 217-3	Contemporary Challenges Facing Aboriginal
	Communities

Four of:

FNST 301-3	Art and Material Culture of BC First
	Nations
FNST 302-3	First Nations Health and Healing
FNST 303-3	First Nations Religion and Philosophy
FNST 304-3	Indigenous Environmental Philosophy
FNST 350-3	Law and Indigenous Peoples
FNST 416-3	International Perspective
FNST 440-3	Internship in First Nations Studies
FNST 451-3	Traditional Use Studies

First Nations Diploma Programs

A Diploma allows a student who has completed a Certificate to build on that qualification. After completing a Certificate, a Diploma will require another 30 credit hours (for a total of 60 credit hours) with a minimum of 15 credit hours being in upper-division courses. A maximum of 30 credit hours from other institutions may be applied to a Diploma.

Due to the diverse nature of the courses required to complete a specific Diploma the University cannot guarantee that an individual student will be able to complete a Diploma within a specified time period. Before starting to take courses towards the goal of completing a Diploma, students are advised to consult with the Chair of the First Nations Studies Program, and where appropriate the Director of their regional campus, in order to confirm when the required Diploma courses are scheduled to be offered.

Aboriginal / Indigenous Health and Healing

The Diploma in Aboriginal / Indigenous Health and Healing offers a multidisciplinary program allowing individuals to pursue their interest in Aboriginal / Indigenous Health and Healing through a concentrated program of courses on Aboriginal / Indigenous Health and Healing subjects. Individuals working with Aboriginal communities in a health related field or desiring to pursue a degree in the health sciences with a concentration on Aboriginal health will be especially interested in this program.

The Diploma in Aboriginal / Indigenous Health and Healing allows individuals to receive a credential after 60 credit hours of study. The Diploma especially complements a major in First Nations Studies, Anthropology, Environmental Studies, Community Health, and Psychology. Students desiring to complete a degree after completion of the Diploma are strongly encouraged to speak with the relevant program Academic Advisor.

Diploma Requirements

Successful completion of the Certificate in Aboriginal / Indigenous Health and Healing

FNST 302-3	First Nations Health and Healing
FNST 303-3	First Nations Religion and Philosophy
FNST 304-3	Indigenous Environmental Philosophy
FNST 313-3	Healing Within Art: Space, Time and Materials
FNST 315-3	Aboriginal Health Management
FNST 316-3	Aboriginal Health and Chronic Illness
FNST 317-3	Aboriginal Healing Practices
FNST 411-3	Advanced Topics in Indigenous Regligion and
	Philosophy
FNST 440-3	Internship in First Nations Studies
FNST 498-3	Special Topics in FNST

First Nations Language

The Diploma in First Nations Language offers a program that allows individuals to pursue their interests in First Nations language through a concentrated program of courses on a particular language.

This diploma program is directed towards individuals who may not wish to commit to a full majors program in First Nations Studies, with the associated requirements of a Bachelor's degree. Persons of First Nations descent and people who are working in the area of aboriginal education will be especially interested in this shorter term program. The diploma program enhances public access to a university education with a course of study that allows flexibility in scheduling individual study programs, establishes a progression mechanism, and provides a short term exit or the option of continuing into other programs, including the Bachelor program.

The diploma program is based on existing undergraduate courses with the addition of two additional levels of language courses (level 5 and 6) and two specific Advanced Immersion First Nations Language courses, which may be delivered through language mentoring.

Diploma Requirements

Successful completion of ten courses (30 credit hours):

Six credit hours (two courses) of First Nations Language courses Three credit hours (one course) of Introduction to Linguistics Nine credit hours (three courses) in the structure of First Nations Languages

Six credit hours (two courses) of First Nations Language Mentoring/Advanced Immersion
Six credit hours (two courses) in First Nations Studies

First Nations Certificate Programs

The Certificate program is intended to enhance public access to a university education with a flexible course of study that allows either a short term exit (upon completion of Certificate requirements) or the option of laddering into other programs, including the Bachelor program.

The Certificate also provides flexibility. All courses in the Certificate are university-credit courses. This means that students can apply credit taken in their Certificate to other programs should they later decide to pursue a Bachelor's degree. Moreover, the requirements for the Certificate could be completed in one year or could be completed on a part-time basis over several years, depending upon course scheduling and the situation of the student.

As soon as a student completed the 10 courses required in the program of study, the student would be eligible to receive his or her Certificate. The completion of the Certificate would give students the equivalent of one full year of university credit. This provides a laddered program of study which could result in the completion of a Bachelor's degree with three more years of study at UNBC or another university. Because the program is based on existing undergraduate courses, Certificate students will take their courses alongside regular, full-time students.

The requirements for admission into a Certificate program are the same as for any student enrolled in a UNBC undergraduate program. To be eligible for a certificate, students must achieve a minimum GPA of C, based on all courses taken at UNBC that are applied to the Certificate. University transfer credits also can be applied to the program, as appropriate, to a maximum of 15 credit hours.

Due to the diverse nature of the courses required to complete a specific Certificate the University cannot guarantee that an individual student will be able to complete a Certificate within a specified time period. Before starting to take courses towards the goal of completing a Certificate, students are advised to consult with the Chair of the First Nations Studies Program, and where appropriate the Director of their regional campus, in order to confirm when the required Certificate courses are scheduled to be offered.

Aboriginal Community Resource Planning

The Aboriginal Community Resource Planning Certificate (ACP) consists of 10 courses (minimum 30 credit hours) drawn primarily from First Nations Studies and Environmental Planning, with offerings from Geography, Commerce, Outdoor Recreation and Tourism, and Natural Resources and Environmental Management. The courses from First Nations Studies provide students with foundations in First Nations in Canada, cultures and languages, internal and external issues, and First Nations environmental philosophies. The courses from Environmental Planning provide foundations in the principles of traditional planning. The program is generic in nature so that the knowledge can be transferred to different community settings, as well as to the variety of situations that students will encounter throughout their lives.

Two important purposes of the certificate are, first, to provide requisite education to assist individuals involved in the resource planning in First Nations communities and, second, to provide expanded educational opportunities at the university level for students who are not in a position to commit to a four year program of study. Students must meet with a First Nations Studies undergraduate student advisor prior to starting this program.

Certificate Requirements

ENPL 104-3	Introduction to Planning
ENPL 204-3	Principles of Practices of Planning
FNST 100-3	The Aboriginal Peoples of Canada
FNST 304-3	Indigenous Environmental Philosophy
FNST 249-3	Aboriginal Resource Planning
GEOG 205-3	Cartography and Geomatics

Any First Nations Culture Level 1 course or any First Nations Language Level 1 course

One of:

ARTS 102-3	Research Writing
ENGL 170-3	Writing & Communication Skills
FNST 200-3	Perspectives in First Nations Studies

One of:

FNST 217-3 Contemporary (Challenges	Facing	Aboriginal
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Communities

POLS 200-3 Canadian Politics and Government

One of:

COMM 100-3	Introduction to Canadian Business
GEOG 202-3	Economic Geography of Resources and
	Sustainability
NIDEO 400 0	0 1 11 1 11 1 10

NRES 100-3 Communication in Natural Resource

Aboriginal / Indigenous Health and Healing

The Certificate in Aboriginal / Indigenous Health and Healing offers a multidisciplinary program allowing individuals to pursue their interest in Aboriginal / Indigenous Health and Healing through a concentrated program of courses on Aboriginal / Indigenous Health and Healing subjects.

The Certificate requires completion of ten courses (30 credit hours). Individuals working with Aboriginal communities in a health-related field or desiring to pursue a degree in the health sciences with a concentration on Aboriginal health will be especially interested in this program.

The Certificate in Aboriginal / Indigenous Health and Healing allows individuals to receive a credential after 30 credit hours of study. The Certificate especially complements a major in First Nations Studies, Anthropology, Environmental Studies, Community Health, and Psychology. Students desiring to complete a degree after the Certificate are strongly encouraged to speak with the relevant program student advisor.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

FNST 100-3 HHSC 101-3	The Aboriginal Peoples of Canada Introduction to Health Sciences I: Issues and Controversies
HHSC 102-3	Introduction to Health Science II: Rural and Aboriginal Issues
FNST 200-3	Perspectives in First Nations Studies
FNST 203-3	Introduction to Traditional Ecological Knowledge
FNST 217-3	Contemporary Challenges Facing Aboriginal Communities
FNST 280-3	Aboriginal Medicines I-Harvesting and Preservation
FNST 281-3	Aboriginal Medicines II-Administering and Ethics
FNST 282-3	Aboriginal Health Philosophy
FNST 298-3	Special Topics in First Nations Studies

First Nations Language

The Certificate in First Nations Language consists of 10 courses (30 credit hours) and offers a program that allows individuals to pursue an interest in First Nations language through a concentrated program of courses on a particular language.

This certificate program is directed towards individuals who may not wish to commit to a full majors program in First Nations Studies, with the associated requirements of a Bachelor's degree. Persons of First Nations descent and people who are working in the area of aboriginal education will be especially interested in this shorter term program. The certificate program enhances public access to a university education with a course of study that allows flexibility in scheduling individual study programs, establishes a progression mechanism, and provides a short term exit or the option of continuing into other programs, including the Bachelor's degree program.

Credits earned in the certificate program can be applied to the major or minor in First Nations Studies, subject to the requirements of those First Nations Studies programs.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

Five courses (15 credit hours) of study in a First Nations language of Northern BC, including one immersion course.

Two courses (six credit hours) of introductory First Nations Studies, including courses on culture and issues.

Two courses (six credit hours) of English.

One course (three credit hours) of Linguistics of First Nations languages.

First Nations Public Administration

The Certificate in First Nations Public Administration consists of ten courses (30 credit hours) drawn primarily from the Department of First Nations Studies and Political Science, with offerings from Business Administration, and Economics. The courses from First Nations Studies provide students with foundations in internal and external First Nations issues and culture, and the courses from Political Science provide foundations in the principles of government, politics, and public administration, as well as some specialization in First Nations law, self-government and administration. The program is generic in nature so that the knowledge can be transferred to different community settings, as well as to the variety of situations that students will encounter throughout their lives.

Two important purposes of the Certificate are, first, to provide requisite education to assist individuals involved in the administration of First Nations governments and, second, to provide expanded educational opportunities at the university level for students who are not in a position to commit to a four-year program of study.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

COMM 210-3	Financial Accounting		
ECON 101-3	Macroeconomics		
ENGL 170-3	Writing and Communication Skills		
or ARTS 10	02-3 Research Writing		
FNST 100-3	The Aboriginal Peoples of Canada		
FNST 217-3	Contemporary Challenges Facing Aboriginal		
	Communities		
FNST 249-3	Aboriginal Resource Planning		
FNST 350-3	Law and Indigenous Peoples		
POLS 100-3	Contemporary Political Issues		
POLS 200-3	Canadian Government and Politics		
Three aredit bear	a of any First Mationa Cultura Laval 1 course or a		

Three credit hours of any First Nations Culture Level 1 course or any First Nations Language Level 1 course.

General First Nations Studies

The Certificate in General First Nations Studies is a multidisciplinary program allowing individuals to pursue their interests in First Nations Studies through a concentrated program of courses on First Nations subjects.

The program ladders well into a major in First Nations Studies, Anthropology, Biology, History, Education, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies.

The Certificate requires successful completion of ten courses (20)

The Certificate requires successful completion of ten courses (30 credit hours). Eighteen of these credit hours are earned by completing six required courses. The remaining four courses (12 credit hours) consist of options from the First Nations Studies program, including at least one course from the approved ancillary course list.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

FNST 100-3	The Aboriginal Peoples of Canada			
FNST 200-3	Perspectives in First Nations Studies			
FNST 217-3	Contemporary Challenges Facing Aboriginal			
	Communities			
ANTH 206-3	Ethnography in Northern British Columbia			
or FNST 304	4-3 Indigenous Environmental Philosophy			
HIST 215-3	Global History of Indigenous People			

Any one course from the series of First Nations Culture or First Nations Language Courses.

Nine credit hours of First Nations Studies at any level approved by the Chair of First Nations Studies.

Three credit hours from the approved list of ancillary courses. Please refer to the list of Approved Ancillary Courses.

Métis Studies

The Certificate in Métis Studies offers a program that allows individuals to pursue their interests through a concentrated program of courses on the Métis Nation.

The certificate requires successful completion of ten courses (30 credit hours).

Persons of Métis descent, other aboriginal people, and people who are working with aboriginal organizations will be especially interested in this program.

The Certificate in Métis Studies allows students to receive a credential after one year of studies which can be laddered into any UNBC program. It especially complements a major in First Nations Studies, Anthropology, History, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies.

The Certificate will be primarily offered through the Prince George campus. First Nations Studies is committed to distance delivery where possible. Students at other regional locals could take the certificate through a combination of face to face and distance delivery.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

FNST 100-3	The Aboriginal Peoples of Canada
FNST 200-3	Perspectives in First Nations Studies
Three of:	
FNST 171-3	Métis Studies Level 1
FNST 172-3	Métis Studies Level 2
FNST 271-3	Métis Studies Level 3
FNST 272-3	Métis Studies Level 4
FNST 131-3	First Nations Language (Cree Language):
	Level 1
FNST 132-3	First Nations Language (Cree Language):
	Level 2
FNST 231-3	First Nations Language (Cree Language):
	Level 3
FNST 232-3	First Nations Language (Cree Language):
	Level 4

Note: Cree is subject to the availability of language instructors.

Five courses (15 credit hours) of First Nations Studies courses dealing with Métis culture, language, or issues. These options will be determined by FNST course offerings in that year. They can be either lower-division or upper-division courses. They can include ancillary courses identified by the program. An ancillary course is defined as a course in a program other than First Nations Studies which has sufficient substantive content in common with First Nations Studies. The program maintains a list of approved ancillary courses.

Nisga'a Studies

The Certificate in Nisga'a Studies offers a program that allows individuals to pursue their interests in First Nations Studies through a concentrated program of courses on the Nisga'a First Nation.

The certificate requires successful completion of 10 courses (30 credit hours).

Persons of Nisga'a descent, other aboriginal people, and people who are working with aboriginal organizations will be especially interested in this program.

It especially complements a major in First Nations Studies, Anthropology, History, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies.

The Certificate will be primarily offered through the WWN. First Nations Studies is committed to distance delivery where possible. Students at the Prince George campus or other regional locals could take the certificate through a combination of face to face and distance delivery.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

FNST 200-3	Perspectives in First Nations Studies
FNST 217-3	Contemporary Challenges Facing Aboriginal
	Communities

Six of:

FNST 139-3	Nisga'a Language: Level 1
FNST 140-3	Nisga'a Language: Level 2
FNST 169-3	Nisga'a Culture: Level 1
FNST 170-3	Nisga'a Culture: Level 2
FNST 239-3	Nisga'a Language: Level 3
FNST 240-3	Nisga'a Language: Level 4
FNST 269-3	Nisga'a Culture: Level 3
FNST 270-3	Nisga'a Culture: Level 4

Note: It is possible to take all four levels of one category, either language or culture, and two levels of the other category.

Two courses (6 credit hours) of First Nations Studies dealing with Nisga'a culture, language, or issues. These two options will be determined by FNST course offerings in that year. They can be at any level. They can include ancillary courses identified by the program. An ancillary course is defined as a course in a program other than First Nations Studies which has sufficient substantive content in common with First Nations Studies. The program maintains a list of approved ancillary courses.

Traditional Ecological Knowledge

The Certificate in Traditional Ecological Knowledge (TEK) is a multidisciplinary program allowing individuals to pursue their interests in TEK through a concentrated program of courses on First Nations and Environmental subjects.

This program ladders well into a major in First Nations Studies, Anthropology, Biology, History, Education, English, Environmental Studies, Forestry, Geography, Nursing and Community Health, Political Science, Psychology, Social Work and Women's Studies as well as leading into majors in Physics and Chemistry.

The Certificate requires successful completion of 10 courses (minimum 30 credit hours). Eighteen of these hours are earned by completing six required First Nations courses. Options for a writing course include one additional First Nations Studies course. The remaining three courses (minimum 9 credit hours) must be selected from the approved list for Ecology, Chemistry, Geography, Physics and Natural Resources.

Students must establish their course of study with approval from the Chair of First Nations Studies.

Certificate Requirements

FNST 100-3	The Aboriginal Peoples of Canada
FNST 203-3	Introduction to Traditional Ecological Knowledge
FNST 304-3	Indigenous Environmental Philosophy

Any First Nations Culture course or any First Nations Language Level 1 course.

Two of:	
FNST 206-3	First Nations Oral Literatures
FNST 217-3	Contemporary Challenges Facing Aboriginal
	Communities
FNST 302-3	First Nations Health and Healing
FNST 303-3	First Nations Religions and Philosophy
One of:	
ARTS 102-3	Research Writing
ENGL 170-3	Writing & Communication Skills
FNST 200-3	Perspectives in First Nations Studies
Three courses (at least 9	eredit hours) from:
BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 201-3	Ecology
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
ENPL 104-3	Introduction to Planning
ENSC 201-3	Introduction to Atmospheric Science
GEOG 100-3	Environments and People: The Geography of
	Natural Hazards
GEOG 200-3	British Columbia: People and Places
NREM 100-3	Field Skills
NREM 204-3	Introduction to Wildlife and Fisheries
NREM 210-4	Integrated Resources Management
PHYS 100-3	Introduction to Physics I
PHYS 101-3	Introduction to Physics II
PHYS 110-3	Introduction to Physics I: Mechanics
PHYS 111-3	Introduction to Physics II: Waves and
	Electricity
PHYS 115-3	General Introduction to Physics

Forest Ecology and Management Major

See Calendar entry under Natural Resources Management-Forest Ecology and Management.

Geography (BA and BSc Programs)

Catherine Nolin, Associate Professor and Chair

Gail Fondahl, Professor

Greg Halseth, Professor, and Canada Research Chair, Rural and Small Town Studies

Neil Hanlon, Professor

Brian Menounos, Professor and Canada Research Chair, Glacier

Ellen Petticrew, Professor and FRBC Chair in Landscape Ecology

Zoë Meletis, Associate Professor

Roger Wheate, Associate Professor/GIS Coordinator

Faran Ali, Assistant Professor Sinead Earley, Lecturer Sam Albers, Adjunct Professor

Matthew Beedle, Adjunct Professor

Sarah de Leeuw, Adjunct Professor

Eric Grunsky, Adjunct Professor

Sean Markey, Adjunct Professor

Marlene Morris, Adjunct Professor

John Rex, Adjunct Professor

Grahame Russell, Adjunct Professor

Ping Bai, Senior Lab Instructor (GIS)

Scott Emmons, Senior Lab Instructor (GIS)

Christine Jackson, Senior Lab Instructor

Website: www.unbc.ca/geography

Geography is an interdisciplinary bridge between the human and physical sciences, studying human—environment interactions. The Geography program offers both a Bachelor of Science and a Bachelor of Arts. The BSc in physical geography examines the natural environment and the interaction of climate, soils, vegetation and landforms, while the BA in human geography focuses on cultural, social, economic and rural environments. Degrees emphasize the geography of the North and contemporary geographic technologies.

Geography Program (BA)

Major in Geography

The Bachelor of Arts provides students with comprehensive training in the study of human geography, emphasizing the cultural, social, economic, and political connections between people and their environments. We offer courses that give students the conceptual and methodological means to make sense of the places and spaces they occupy, and how these relate to the rest of the world. Particular emphasis is on issues of community development, social justice, environmental equity, and population health in northern environments as a starting point for understanding the dynamics of place-making in a global context.

The minimum requirement for the completion of a Bachelor of Arts with a major in Geography is 120 credit hours.

Program Requirements

Lower-Division Requirement

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GEOG 100-3 Environments and People: The Geography of

Natural Hazards

GEOG 101-3 Human Geographies of Global Change

200 Level

GEOG 200-3 British Columbia: People and Places

GEOG 203-3 Roots, Ruggedness, and Rituals: A Geography of

Canada

GEOG 204-3 Introduction to GIS for the Social Sciences

GEOG 210-3 Geomorphology STAT 240-3 Basic Statistics

or ECON 205-3 Statistics for Social and Management

Science

Four of:

GEOG 202-3 Economic Geography of Resources and

Sustainability

GEOG 205-3 Cartography and Geomatics

GEOG 206-3 Society and Space GEOG 209-3 Migration and Settlement

GEOG 220-3 World Regions: Latin America and the

Caribbean

GEOG 222-3 World Regions: Russia

Upper-Division Requirement

300 Level

ENPL 319-3 Social Research Methods

or ORTM 310-3 Research Methods and Analysis

Five of:

GEOG 300-3 Geographic Information Systems

GEOG 301-3 Cultural Geography GEOG 305-3 Political Ecology

GEOG 306-3 Geography of International Development:

Places, People, Policies, and Promises

GEOG 307-3 Changing Arctic: Human and Environmental

Systems

GEOG 308-3 Environments of Health and Care

GEOG 333-3 Geography Field School

400 Level

ENVS 414-3 Environmental and Professional Ethics

or COMM 332-3 Business and Professional Ethics

or POLS 317-3 Moral Philosophy

Tenure, Conflict, and Resource Geography
First Nations and Indigenous Geography
Advanced GIS
Geographies of Environmental Justice
Social Geography of Northern Communities
Geographies of Culture, Rights and Power
Health Geography in Practice
Remote Sensing

Elective and Academic Breadth

GEOG 498-(1-3) Special Topics GEOG 499-(3-6) Independent Studies

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours, of which 24 credit hours in any subject must be at the 300 or 400 level including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Major in Public Administration and Community Development

The Public Administration and Community Development major gives students the skills required to function within a range of groups, organizations, and offices. Graduates are able to interact with appropriate professionals, receive their input and reports, and collate a wide range of information and material in service of their group/ organization/office. Skills in analysis and synthesis are complemented by an ability to work cooperatively and effectively, and an ability to communicate clearly through written, oral, and graphic media.

The Public Administration and Community Development major requires completion of 120 credit hours, 48 of which must be at the upper-division level. At the lower division, students must take the seven required courses and a minimum of one course from each of the seven categories. At the upper division, students must take the four required courses and a minimum of one course from each of the seven categories. To complete the 120 credit hours, students must take 45 credit hours of electives, of which 15 credit hours must be at the upper division.

It is possible for students to organize their course choices (categories and electives) to achieve a "specialization" of course work. An Area of Specialization requires eight courses (24 credit hours) in one of the following:

- Specialization in Local Public Administration
- Specialization in Aboriginal Community Development
- Specialization in Planning

Program Requirements

Lower-Division Requirements

COMM 100-3	Introduction to Canadian Business
ECON 100-3	Microeconomics
ECON 101-3	Macroeconomics
ENPL 104-3	Introduction to Planning
FNST 100-3	Aboriginal Peoples of Canada
GEOG 101-3	Human Geographies of Global Change
POLS 100-3	Contemporary Political Issues

Select ONE course from each category below:

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FNST 217-3	Contemporary Challenges Facing Aboriginal
	Communities
GEOG 206-3	Society and Space
GEOG 209-3	Migration and Settlement

Public Administration

ECON 210-3	Introduction to Health Economics and Policy
POLS 255-3	Introduction to Law in Canada
SOCW 201-3	Introduction to Social Welfare

Governance

ENVS 101-3	Introduction to Environmental Citizenship
HIST 257-3	Public Law in Canada
POLS 200-3	Canadian Government and Politics
POLS 257-3	Public Law in Canada

First Nations ENICT 200 2

11131 200-3	rerspectives in rirst mations studies
FNST 249-3	Aboriginal Resource Planning
or ENPL 208-3	First Nations Community and Environmental
	Planning

Parenactives in First Nations Studios

HIST 215-3 Global History of Indigenous People

Methods

Statistics for Business and the Social Sciences
Principles and Practices of Planning
Planning Analysis and Techniques
Perspectives in First Nations Studies
Introduction to Traditional Ecological Knowledge
Introduction to GIS for the Social Sciences
Cartography and Geomatics

Economic

COMM 230-3	Organizational Behaviour
GEOG 202-3	Economic Geography of Resources and
	Sustainability
ORTM 200-3	Sustainable Outdoor Recreation and Tourism
0111W 200 0	odotalilable outdoor flooreation and fourion

General	
ANTH 102-3	Anthropology: A World of Discovery
ARTS 102-3	Research Writing
COMM 240-3	Introduction to Marketing
ECON 220-3	Globai Economic Shifts
POLS 290-3	Research and Writing for Political Science
ORTM 100-3	Foundations of Outdoor Recreation and Tourism

Upper-Division Requirements		Methods ANTH 421-(3-6)	Ethnographic Field Methods
ENPL 313-3	Rural Community Economic Development	ENPL 305-3	Environmental Impact Assessment
POLS 332-3	Community Development	ENPL 319-3	Social Research Methods
POLS 403-3	Social and Health Policy and Administration	FNST 300-3	Research Methods in First Nations Studies
GEOG 424-3	Social Geography of Northern Communities	ORTM 310-3	Research Methods and Analysis
Select ONE course from each catagory below:		Economic	later destina to latera etimal Designa
Community	The Control of Control	COMM 303-3 ECON 305-3	Introduction to International Business Environmental Economics and Environmental Policy
ANTH 316-3	The Social Theory and Structure of Contemporary Canadian Society	ECON 331-3	Forest Economics
COMM 302-3	Entrepreneurship	ECON 307-3	Northern BC in the Global Economy
ENPL 301-3	Sustainable Communities: Structure and Sociology	GEOG 401-3	Tenure, Conflict, and Resource Geography
GEOG 301-3	Cultural Geography	0	
ORTM 407-3	Recreation, Tourism, and Communities	General	Duainage and Drafagaianal Ethica
POLS 434-3	Resource Communities in Transitition	COMM 332-3	Business and Professional Ethics
SOCW 437-3	Social Work with Groups and Communities	COMM 340-3	Marketing Communications
SOCW 457-3	Individual and Community Wellness	COMM 342-3	Services Marketing
B. D.C. Adv. C.C.	and the second	ENVS 414-3	Environmental and Professional Ethics
Public Administr		FNST 451-3	Traditional Use Studies
COMM 330-3	Human Resources Management	FNST 498-3	Special Topics in First Nations Studies
ENPL 304-3	Mediation, Negotiation, Public Participation	GEOG 200-3	British Columbia: People and Places Environments of Health and Care
ENPL 401-3	Environmental Law	GEOG 308-3	
POLS 302-3	How Government Works	GEOG 420-3 HIST 360-3	Geographies of Environmental Justice An Introduction to Environmental History
POLS 344-3	Society, Policy and Administration of Natural Resources	POLS 327-3	Leadership and Ethics in Local Government
POLS 351-3	Local Services and Public Policy		
	Local Covernment Finance	V	a a i a li — a ti a ra
POLS 360-3	Local Government Finance	Areas of Sp	ecialization
SOCW 435-3	Community Social Policy	•	
SOCW 435-3 SOCW 455-3		It is possible for selectives) to achie	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the
SOCW 435-3 SOCW 455-3 Governance	Community Social Policy First Nations Governance and Social Policy	It is possible for s electives) to achie PACD major, com	tudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24)
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State	It is possible for s electives) to achie PACD major, com	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the
SOCW 435-3 SOCW 455-3 Governance	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public	It is possible for s electives) to achie PACD major, com credit hours) from	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following:
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement	It is possible for selectives) to achie PACD major, com credit hours) from • Specialization	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following:
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology	It is possible for selectives) to achie PACD major, com credit hours) from Specializatio Specializatio	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following: on in Local Public Administration on in Aboriginal Community Development
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics	It is possible for selectives) to achie PACD major, com credit hours) from Specializatio Specializatio	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following:
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy	It is possible for selectives) to achie PACD major, com credit hours) from Specialization Specialization	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following: on in Local Public Administration on in Aboriginal Community Development on in Planning
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC	It is possible for selectives) to achie PACD major, com credit hours) from Specialization Specialization	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following: on in Local Public Administration on in Aboriginal Community Development
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy	It is possible for selectives) to achie PACD major, com credit hours) from Specialization Specialization Specialization Area of Specialization	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following: on in Local Public Administration on in Aboriginal Community Development on in Planning ialization in Local Public Administration
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC	It is possible for selectives) to achie PACD major, com credit hours) from Specialization Specialization Specialization Area of Specialization * Students choose	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 in one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning italization in Local Public Administration ing this Area of Specialization should be aware
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SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC	It is possible for selectives) to achie PACD major, com credit hours) from Specialization Specialization Specialization Area of Specialization * Students choose that UNBC also of the Department of	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 in one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning italization in Local Public Administration ing this Area of Specialization should be aware
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SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3 First Nations ANTH 404-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC Law and Municipal Government Comparative Study of Indigenous Peoples of the World Advanced First Nations Community and	It is possible for selectives) to achie PACD major, com credit hours) from Specialization Specialization Specialization Area of Specialization Students choose that UNBC also of the Department of Administration Celebrat	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 in one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning Italization in Local Public Administration In this Area of Specialization should be aware of the service of the servic
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3 First Nations ANTH 404-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC Law and Municipal Government Comparative Study of Indigenous Peoples of the World Advanced First Nations Community and Environmental Planning	It is possible for selectives) to achie PACD major, comoredit hours) from Specialization Specialization Specialization Area of Specialization Students choose that UNBC also of the Department of Administration Cestudies.	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 in one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning Italization in Local Public Administration In this Area of Specialization should be aware of the service of the servic
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SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3 First Nations ANTH 404-3 ENPL 409-3 FNST 304-3 GEOG 403-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC Law and Municipal Government Comparative Study of Indigenous Peoples of the World Advanced First Nations Community and Environmental Planning Indigenous Environmental Philosophy First Nations and Indigenous Geography	It is possible for selectives) to achie PACD major, comoredit hours) from Specialization Specia	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 in one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning Italization in Local Public Administration In this Area of Specialization should be aware offers a Public Administration Certificate through of Political Science, as well as a First Nations Public entificate through the Department of First Nations Course choices Introduction to Canadian Business
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3 First Nations ANTH 404-3 ENPL 409-3 FNST 304-3 GEOG 403-3 GEOG 426-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC Law and Municipal Government Comparative Study of Indigenous Peoples of the World Advanced First Nations Community and Environmental Planning Indigenous Environmental Philosophy First Nations and Indigenous Geography Geographies of Culture, Rights and Power	It is possible for selectives) to achie PACD major, comoredit hours) from Specialization Specia	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning italization in Local Public Administration ing this Area of Specialization should be aware fers a Public Administration Certificate through of Political Science, as well as a First Nations Public ertificate through the Department of First Nations course choices Introduction to Canadian Business Organizational Behaviour
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3 First Nations ANTH 404-3 ENPL 409-3 FNST 304-3 GEOG 403-3 GEOG 426-3 HIST 390-3 NREM 303-3 ORTM 306-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC Law and Municipal Government Comparative Study of Indigenous Peoples of the World Advanced First Nations Community and Environmental Planning Indigenous Environmental Philosophy First Nations and Indigenous Geography Geographies of Culture, Rights and Power Aboriginal People in Canada First Nations Approaches to Resource Management Indigenous Tourism and Recreation	It is possible for selectives) to achie PACD major, commoredit hours) from Specialization Specia	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning ialization in Local Public Administration ing this Area of Specialization should be aware fers a Public Administration Certificate through of Political Science, as well as a First Nations Public ertificate through the Department of First Nations course choices Introduction to Canadian Business Organizational Behaviour Introduction to Law in Canada
SOCW 435-3 SOCW 455-3 Governance ANTH 410-3 ENVS 326-3 GEOG 305-3 POLS 316-3 POLS 320-3 POLS 333-3 POLS 350-3 First Nations ANTH 404-3 ENPL 409-3 FNST 304-3 GEOG 403-3 GEOG 426-3 HIST 390-3 NREM 303-3	Community Social Policy First Nations Governance and Social Policy Theory of Nation and State Natural Resources, Environmental Issues and Public Engagement Political Ecology Municipal Government and Politics Canadian Politics and Policy Politics and Government of BC Law and Municipal Government Comparative Study of Indigenous Peoples of the World Advanced First Nations Community and Environmental Planning Indigenous Environmental Philosophy First Nations and Indigenous Geography Geographies of Culture, Rights and Power Aboriginal People in Canada First Nations Approaches to Resource Management	It is possible for selectives) to achie PACD major, commoredit hours) from Specialization Specia	etudents to organize their course choices (areas and eve an Area of Specialization of course work. For the pletion of a specialization requires eight courses (24 n one of the following: On in Local Public Administration on in Aboriginal Community Development on in Planning ialization in Local Public Administration ing this Area of Specialization should be aware fers a Public Administration Certificate through of Political Science, as well as a First Nations Public ertificate through the Department of First Nations course choices Introduction to Canadian Business Organizational Behaviour Introduction to Law in Canada

Upper-Division course choices POLS 316-3 Municipal Government and Politics POLS 320-3 Canadian Politics and Policy POLS 327-3 Leadership and Ethics in Local Government POLS 333-3 Politics and Government of BC POLS 350-3 Law and Municipal Government POLS 351-3 Local Services and Public Policy POLS 360-3 Local Government Finance POLS 403-3 Social and Health Policy and Administration

Area of Specialization in Aboriginal Community Development

Lower-Division course choices

FNST 200-3	Perspectives in First Nations Studies
FNST 203-3	Introduction to Traditional Ecological Knowledge
FNST 217-3	Contemporary Challenges Facing Aboriginal
	Communities
FNST 249-3	Aboriginal Resource Planning
or ENPL 208-3	First Nations Community and Environmental
	Planning

Upper-Division course choices

ANTH 404-3	Comparative Study of Indigenous Peoples of the World
001414 000 0	*****
COMM 302-3	Entrepreneurship
ENPL 409-3	Advanced First Nations Community and
	Environmental Planning
FNST 300-3	Research Methods in First Nations Studies
FNST 304-3	Indigenous Environmental Philosophy
FNST 416-3	International Perspective
FNST 451-3	Traditional Use Studies
FNST 498-3	Special Topics in First Nations Studies
GEOG 403-3	First Nations and Indigenous Geography
HIST 390-3	Aboriginal People in Canada
NREM 303-3	First Nations Approaches to Resource Management
ORTM 306-3	Indigenous Tourism and Recreation
SOCW 455-3	First Nations Governance and Social Policy
SOCW 457-3	Individual and Community Wellness

Area of Specialization in Planning

* It should be noted that the Area of Specialization in Planning does not lead to an accredited planning degree. The School of Environmental Planning offers a professional accredited Canadian Institute of Planner degree. Refer to the calendar for further information.

Required courses

ENIDI 101-3

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ENPL 204-3	Principles and Practices of Planning
ENPL 301-3	Sustainable Communities: Structure and Sociology
ENPL 304-3	Mediation, Negotiation, Public Participation

Introduction to Planning

Four of the following	
ENPL 206-3	Planning Analysis and Techniques
ENPL 208-3	First Nations Community and Environmental
	Planning
ENPL 305-3	Environmental Impact Assessment
ENPL 313-3	Rural Community Economic Development
ENPL 319-3	Social Research Methods
ENPL 401-3	Environmental Law
ENPL 409-3	Advanced First Nations Community and
	Environment Planning
ENVS 326-3	Natural Resources, Environmental Issues and
	Public Engagement

Elective and Academic Breadth

45 elective credits in any subject as necessary to ensure completion of a minimum of 120 credit hours (at least 15 of these elective credit hours must be at the 300 or 400 level) including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Geography Program (BSc)

Major in Geography

This degree focuses on geography as an earth science, with introductions to biology, chemistry, mathematics and physics, followed by upper-level courses in climatology, hydrology, geomorphology, soils and weathering, and geomatics. This combination enables the understanding of the interactions between the atmosphere, lithosphere, hydrosphere and biosphere, aided by the use of statistical techniques, mapping, remote sensing and geographic information systems. Courses will develop applied field and technical skills for associated career paths.

Undergraduate students are required to take a minimum of 11 Geography courses (31 credit hours). Of these courses, a minimum of five must be upper division. Students are required to take a minimum of 24 credit hours of Electives Science Courses, of which 15 credit hours must be upper division in order to successfully complete degree requirements. Additional electives, as necessary, are required to ensure the completion of a minimum of 120 credit hours.

The minimum requirement for completion of a Bachelor of Science with a major in Geography is 120 credit hours.

Program Requirements

Lower-Division Requirement

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IOO FEAGI			
BIOL 103-3	Introductory Biology I		
and BIOL 123-1	Introductory Biology I Laboratory		
or BIOL 110-3	Introductory Ecology		
CHEM 100-3	General Chemistry I		
CHEM 101-3	General Chemistry II		
CHEM 120-1	General Chemistry Lab I		
CHEM 121-1	General Chemistry Lab II		
GEOG 101-3	Human Geographies of Global Change		
MATH 100-3	Calculus I		
MATH 101-3	Calculus II		
PHYS 100-4	Introduction to Physics I		
or PHYS 110	0-4 Introductory Physics I: Mechanics		
GEOG 100-3	Environments and People: The Geography of		
	Natural Hazards		
GEOG 111-1	Theory and Practice of Physical Geography		

200 Level

ENSC 201-3	Weather and Climate
FSTY 205-3	Introduction to Soil Science
GEOG 200-3	British Columbia: People and Places
GEOG 205-3	Cartography and Geomatics
GEOG 210-3	Geomorphology
STAT 240-3	Basic Statistics

Upper-Division Requirement

GEOG 413-3

GEOG 414-3

GEOG 457-3

ENSC 425-3

300 Level

300 L	_evei		
GEOG	300-3	Geog	raphic Information Systems
GEOG	310-3	Hydro	ology
	or NREM 41	0-3	Watershed Management
GEOG	311-3	Drain	age Basin Geomorphology
GEOG	312-3	Geom	norphology in Cold Regions
Two o	of:		
	ENSC 312-3	3	Biometeorology
	FSTY 425-3	3	Soil Formation and Classification
	or FSTY 315	5-3	Forest Soil Management
	GEOG 432-	3	Remote Sensing
	GEOG 333-	3	Geography Field School
	GEOG 320-	3	Sedimentology
400 L	_evel		
Three	of:		
	GEOG 405-	3	Fluvial Geomorphology
	GEOG 411-	3	Quaternary and Surficial Geology

Advanced GIS

Weathering Processes Advanced Remote Sensing

Climate Change and Global Warming

Elective Requirement

Science Electives

Nine credit hours of Science electives at any level and fifteen credit hours of Science electives at the 300 or 400 level.

Elective Science Courses

Anthropology

ANTH 100-3	Archaeological and Biological Approaches
ANTH 200-3	Biological Anthropology
ANTH 205-3	Introduction to Archaeology
ANTH 220-3	Introduction to Primatology
ANTH 301-3	Archaeological Lab Methods
ANTH 311-3	Nutritional Anthropology
ANTH 312-3	Human Adaptability
ANTH 320-3	Biology of Circumpolar Peoples
ANTH 420-3	Races, Racism and Human Biology

Biology

All courses allowed

Chemistry

All courses allowed

Computer Science

All courses allowed

Environmental Planning

ENPL 305-3	Environmental Impact Assessment
ENPL 402-3	Terrain Assessment

Environmental Science

The following courses are allowed:				
ENGR 350-3	Fluid Mechanics			
ENGR 451-3	Groundwater Hydrology			
ENSC 202-3	Introduction to Aquatic Systems			
ENSC 308-3	Northern Contaminated Environments			
ENSC 312-3	Biometeorology			
ENSC 404-3	Waste Management			
ENSC 406-3	Environmental Modelling			
ENSC 408-3	Storms			
ENSC 412-3	Air Pollution			
ENSC 418-3	Environmental Measurement and Analysis			
ENSC 425-3	Climate Change and Global Warming			
ENSC 450-3	Geophysical Data Analysis			
ENSC 452-3	Reclamation and Remediation of Disturbed			
	Environments			
ENSC 453-3	Environmental Resource Management and			
	Decision Making			
ENSC 454-3	Snow and Ice			

Forestry

All courses allowed

Geography

GEOG 312-3	Geomorphology of Cold Regions
GEOG 333-3	Geography Field School
GEOG 320-3	Sedimentology
GEOG 405-3	Fluvial Geomorphology
GEOG 411-3	Quaternary and Surficial Geology
GEOG 413-3	Advanced GIS
GEOG 414-3	Weathering Processes

GEOG 432-3 Remote Sensing

GEOG 457-3 Advanced Remote Sensing

Math

All courses allowed

Natural Resources Management

The following courses are allowed:

The feneral greatest are anothern		
NREM 100-3	Field Skills	
NREM 101-3	Introduction to Natural Resources Management and	
	Conservation	
NREM 203-3	Resource Inventories and Measurement	
NREM 204-3	Introduction to Wildlife and Fisheries	
NREM 210-3	Integrated Resource Management	
NREM 333-3	Field Applications in Resource Management	

Physics

All courses allowed

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Anthropology/Geography (BA) Joint Major

See Calendar entry under Anthropology.

Minor in Geomorphology

A minor in Geomorphology is appropriate for students who wish to obtain a level of competence in the history of Earth's landscapes, surface processes and environmental change. The minor consists of key courses which, when taken together, provide a degree of proficiency in a field that is actively sought after by environmental consulting firms and government agencies.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Geomorphology.

The minimum requirement for the completion of the minor in Geomorphology is 18 credit hours.

Requirements

GEOG 210-3	Geomorphology	
05000110		

GEOG 311-3 Drainage Basin Geomorphology

Four of:

OI:		
GEOG 310-3 Hydro		gy
GEOG 312-3	Geomor	phology of Cold Regions
GEOG 405-3	Fluvial 6	Geomorphology
GEOG 411-3	Quatern	ary and Surficial Geology
GEOG 300-3 Geog		phic Information Systems
or GEOG 4	13-3	Advanced GIS
or GEOG 4	32-3	Remote Sensing
GEOG 414-3	Weather	ring Processes
FSTY 205-3	Introduc	tion to Soil Science
or FSTY 42	25-3	Soil Formation and Classification

Minor in GIS (Geographic Information Systems)

The aim of the minor is to provide a level of competence in a combination of courses in Geographic Information Systems and Computer Science technologies. Combining these selected courses in Geography and Computer Science will provide a level of proficiency in geographic data processing and analysis suitable for careers in the GIS industry.

The three required Geography courses are the core of the minor, along with four additional courses selected from a list of GIS courses and Computer Science courses. CPSC 110-3 (Introduction to Computer Systems and Programming) CPSC 126-3 (Introduction to Computing) and CPSC 344-3 (Data Communications and Networking) are aimed at those not majoring in Computer Science.

A maximum of two courses (6 credit hours) at or above the 200 level used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in GIS.

The minimum requirement for the completion of the minor in GIS is 21 credit hours, of which at least 12 must be upper-division credits.

Requirements

GEOG 205-3	Cartography and Geomatics
GEOG 300-3	Geographic Information Systems
GFOG 432-3	Remote Sensing

Four courses from the list below, include at least one in GEOG/ENPL and two in CPSC:

GEOG 204-3	Introduction to GIS for the Social Sciences
ENPL 303-3	Spatial Planning with Geographical
	Information Systems (GIS)
GEOG 413-3	Advanced GIS
GEOG 457-3	Advanced Remote Sensing
CPSC 100-4	Computer Programming I
or CPSC 1	10-3 Introduction to Computer Systems
	and Programming
CPSC 126-3	Introduction to Computing

CPSC 270-3	Human Interface Design
CPSC 324-3	Introduction to Database Systems
CPSC 350-3	Introduction to Computer Graphics
CPSC 344-3	Data Communications and Networking
or COMM 353-3	Business Data Communications and
	Networking
or CPSC 444-3	Computer Networks

Minor in Physical Geography

A minor in Physical Geography is appropriate for students who seek a broad-based exposure to earth and environmental sciences. Prospective teachers, human geographers, and government agency and environmental consulting employees will find the study of Earth's processes and the natural environment beneficial to their future careers. The minor consists of a group of courses which, when taken together, provide a degree of proficiency in Physical Geography.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Physical Geography.

The minimum requirement for the completion of the minor in Physical Geography is 18 credit hours.

Requirements

GEOG 210-3

FSTY 205-3	Inti	oductio	n to Soil Science
ENSC 201-3	We	ather a	nd Climate
Three of:*			
ENSC	312-3	Biom	eteorology
	or ENSC	408-3	Storms
GEOG	300-3	Geog	raphic Information Systems
	or GEOG	413-3	Advanced GIS
	or GEOG	432-3	Remote Sensing
GEOG	310-3	Hydr	ology
	or GEOG	405-3	Fluvial Geomorphology
GEOG	311-3	Drair	nage Basin Geomorphology
GEOG	312-3	Geor	norphology of Cold Regions
GEOG	411-3	Quat	ernary and Surficial Geology
GEOG	414-3	Weat	thering Processes

Geomorphology

*Note: Courses used to fulfill requirements for a major or another minor may not be used to fulfill this requirement. Where students have the three required courses included in their major, they shall take four of the alternatives from the above list.

Minor in Human Geography

The aim of the minor is to show a level of competence in a theme, field or program direction that a student feels would be beneficial to her/his career and which would be ancillary to the major. By designating this group of courses as a minor the student is able to demonstrate a level of proficiency in that field.

The minor in Human Geography is designed to provide the student with:

- 1. an introduction to the basics of Human Geography;
- a well-rounded introduction to several of the key sub-fields of Human Geography; and;
- the chance to explore at least one facet of Human Geography of special interest to the student at the 400 level.

A maximum of two courses (6 credit hours) at or above the 200 level used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Human Geography.

The minimum requirement for completion of a minor in Human Geography is 24 credit hours, including 12 upper-division credit hours.

Requirements

GEOG 1	00-3	Environments and People: The Geography of Natural Hazards
0F00 1	01.2	
GEOG 1		Human Geographies of Global Change
GEOG 2	202-3	Economic Geography of Resources and
		Sustainability
GEOG 2	206-3	Society and Space
A minim	num of two	, maximum of three of:
G	EOG 209-3	Migration and Settlement
G	EOG 301-3	3 Cultural Geography
G	EOG 305-3	B Political Ecology
G	EOG 306-3	International Development: People, Places,
		Policies, and Promises
G	EOG 308-3	
A minim	num of one	, maximum of two of:
G	EOG 401-3	Tenure, Conflict, and Resource Geography
G	EOG 403-3	
	EOG 420-3	3, 11, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
	EOG 424-3	3 4
	EOG 426-3	3 4 3 4
G	EOG 428-3	Health Geography in Practice

Minor in Global Environmental Change

See Calendar entry under Environmental Studies.

Global and International Studies (BA Program)

Paul Bowles, Professor and Chair Heather Smith, Professor Anna Casas Aguilar, Adjunct Professor Ami Hagiwara, Lecturer

Website: www.unbc.ca/international-studies

Our world is rapidly globalizing, bringing exciting opportunities and daunting challenges. Global and International Studies, hereafter referred to as Global Studies, seeks to tackle this brave new world in all its complexity. We train students to be global citizens, global thinkers, and global problem-solvers, and prepare them for global careers in academia, business, government, and the non-profit sector, among others. A unique feature of our program is that we train students in foreign languages. Language is the entry-point for understanding the world's cultures and equips students for studying and working abroad.

Global Studies is a holistic and timely field of study whose scope is the whole Earth and whose eyes are on the future, aiding a global transformation toward healthy, just, peaceful, prosperous, and sustainable societies for all. The focus of our program is on the 'big picture,' international to global. Students emerge from our program with knowledge of the macro-level structures, actors, processes, ideas, issues, and events shaping our planet and its societies. This is accomplished in multi-disciplinary, multi-perspective, local-to-global, and critical ways of thinking.

The curriculum is organized around four themes:

- Global environment and sustainability
- · Global cultures and diversity
- Global governance and social justice
- · Global political economy and development

Students take courses in each theme, learn to integrate across themes, and can focus on one or more themes if they so choose. Special attention is given to British Columbia's immediate international neighbouring regions: Asia-Pacific, Circumpolar North, and the Americas.

Major in Global and International Studies

To give students a solid and well-rounded foundation in the social sciences and humanities, the IASK (Integrated Analytical Skills & Knowledge) program is integrated into the Global and International Studies major. In addition to IASK (which consists of 6 courses and 18 credit hours taken over two semesters), 63 credit hours of Global and International Studies coursework are required, of which 21 credit hours are at the lower-division (100/200) level, 30 credit hours are at the upper-division (300/400) level, and 12 credit hours are in foreign language study. Thus, a grand total of 81 credit hours is required for the Global and International Studies major.

The minimum requirement for completion of a Bachelor of Arts with a major in Global and International Studies is 120 credit hours.

Program Requirements

Lower-Division Requirement

IASK (Integrated Analytical Skills & Knowledge) Program

- See calendar entry under IASK for an explanation of this program and the series of courses associated with it.
- Under special circumstances the IASK requirement can be waived with permission from the Chair of the Department of Global and International Studies.

100 and 200 Level

INTS 100-3 Introduction to Global Studies

INTS 210-3 Globalizations

Global environmental and sustainability theme

INTS 225-3 Global Environmental Challenge: Sustainability

Global cultures and diversity theme
ANTH 213-3 Peoples and Cultures

Global governance and social justice theme

POLS 202-3 Canada in Comparative Perspective

Global political economy and development theme

ECON 101-3 Macroeconomics

or INTS 220-3 Global Economic Shifts

Note: Students intending to take upper-division courses from the global political economy and/or global environment themes are strongly encouraged to take ECON 205-3 Statistics for the Social and Management Sciences in their first or second year.

Language and Regional Studies Requirement

Students majoring in Global and International Studies must complete four language courses (12 credit hours) and one lower-division regional studies course. The ideal sequence is to take all four language courses in a single language and a regional studies course corresponding to that language. This sequencing is *not* required; however, at least two courses must be in one language.

Regional Studies

One of:

INTS 200-3	Contemporary Russia
INTS 203-3	Contemporary Japan
INTS 204-3	Contemporary China
INTS 207-3	Contemporary Latin America
INTS 240-3	Contemporary Circumpolar North
GEOG 220-3	World Regions: Latin America and the Caribbean
GEOG 222-3	World Regions: Russia
HIST 218-3	Republican Latin America

International Languages

Note on Languages: Language courses offered by the Department of Gloabl and International Studies are not designed for native speakers. A native speaker is defined as a person who is able to read and carry on conversations related to simple, daily topics or whose language ability is equivalent to a middle school graduate in that language. Students who have prior knowledge of the language for a given course must consult with the instructor, must complete a language skill evaluation, and must receive the permission of the instructor before being allowed to register for the course.

Chinese (Mandarin)		
INTS 161-3	Beginning Chinese I	
INTS 162-3	Beginning Chinese II	
INTS 261-3	Intermediate Chinese I	
INTS 262-3	Intermediate Chinese II	
or		
French		
INTS 171-3	Beginning French I	
INTS 172-3	Beginning French II	
INTS 271-3	Intermediate French I	
INTS 272-3	Intermediate French II	
or		
Japanese		
INTS 121-3	Beginning Japanese I	
INTS 122-3	Beginning Japanese II	
INTS 221-3	Intermediate Japanese I	
INTS 222-3	Intermediate Japanese II	
INTS 321-3	Japanese Conversation and Composition I	
INTS 322-3	Japanese Conversation and Composition II	
or		
Russian		
INTS 131-3	Beginning Russian I	
INTS 132-3	Beginning Russian II	
INTS 231-3	Intermediate Russian I	
INTS 232-3	Intermediate Russian II	
or		
Spanish		
INTS 181-3	Beginning Spanish I	
INTS 182-3	Beginning Spanish II	
INTS 281-3	Intermediate Spanish I	
INTS 282-3	Intermediate Spanish II	
or		
Other		
INTS 151-3	Beginning International Language I	
INTS 152-3	Beginning International Language II	
INTS 251-3	Intermediate International Language I	
INTS 252-3	Intermediate International Language II	

Upper-Division Requirement

300 and 400 Level

At the upper-division level, students must take INTS 310-3, INTS 490-3 (our 'global capstone' course), four INTS upper-division courses and four non-INTS upper-division courses.

INTS Upper-Division Courses (18 credit hours)

INTS 310-3 Origins and Evolution of Our Globalizing World

INTS 490-3 Global Capstone

any four additional INTS upper-division courses (12 credit hours)

Non-INTS Upper-Division Courses (12 credit hours)

Students must take four courses (12 credit hours) from the list of courses below. The courses are organized by Global Studies theme; however, students are not required to take a course in each theme. They are free to take any four courses of their choosing from this list.

Note: Some of these courses have prerequisites that are not met by INTS lower-division required courses. Students must ensure that all prerequisites are fulfilled prior to registering in any course.

Global environme	ental and sustainability theme
VILL 315-3	Human Adantahility

ANTH 312-3	Human Adaptability
ANTH 413-(3-6)	Environmental Anthropology
ECON 305-3	Environmental Economics and Environmental Policy
ECON 425-3	Trade and the Environment
ENVS 306-3	Human Ecology
ENVS 309-3	Gender and Environment
ENVS 414-3	Environmental and Professional Ethics
FNST 304-3	Indigenous Environmental Philosophy
GEOG 305-3	Political Ecology
GEOG 307-3	Changing Arctic: Human and Environmental
	Systems
GEOG 401-3	Tenure, Conflict and Resource Geography
GEOG 420-3	Geographies of Environmental Justice
HIST 360-3	Introduction to Environmental History
NORS 311-3	Lands and Environments of the Circumpolar
	North 1
NORS 312-3	Lands and Environments of the Circumpolar
	North 2
NREM 303-3	First Nations' Approaches to Resource Management
NREM 306-3	Society, Policy and Administration
NREM 411-3	Environmental and Professional Ethics
ORTM 403-3	International Dimensions of Outdoor Recreation and
	Tourism
POLS 344-3	Society, Policy and Administration of Natural
	Resources

	nd diversity theme
ANTH 305-3	Circumpolar Ethnography
ANTH 404-3	Comparative Study of Indigenous Peoples of
	the World
ANTH 414-3	Religion, Ideology, and Belief Systems
ENGL 350-3	Comparative Literature
ENGL 493-(3-6)	Cultural Studies
FNST 303-3	First Nations Religion and Philosophy
FNST 416-3	International Perspective
GEOG 301-3	Cultural Geography
GEOG 403-3	First Nations and Indigenous Geography
GEOG 426-3	Geographies of Culture, Rights and Power
HIST 390-3	Aboriginal People in Canada
NORS 321-3	Peoples and Cultures of the Circumpolar World 1
NORS 322-3	Peoples and Cultures of the Circumpolar World 2
ORTM 306-3	Indigenous Tourism and Recreation
POLS 412-3	Comparative Aboriginal State Relations

ANTH 406-3	ce and social justice theme Feminist Perspectives in Anthropology	Joint Ma	ajor in Global and ional Studies/Political
ANTH 410-3	ANTH 410-3 Theory of Nation and State		
ANTH 419-3	Political and Legal Anthropology	Science	
ANTH 420-3	Races, Racism, and Human Biology		
ECON 301-3	Women and the Economy		equirement for completion of a Bachelor of Arts with a
ENGL 340-3	Postcolonial Literature		lobal and International Studies and Political Science is
ENGL 410-3	Contemporary Women's Literature	120 credit hour	S.
ENGL 440-3	Special Topics in Postcolonial Literature I		
FNST 306-3	Indigenous Women: Perspectives	Lower-Divis	sion Requirement
HIST 311-3	History of Feminism		
HIST 312-3	An Introduction to the History of Gender	ECON 100-3	Microeconomics
HIST 340-3	Politics and Society in Twentieth Century China	ECON 101-3	Macroeconomics
HIST 355-3	Russian Imperial History	ECON 205-3	Statistics for Business and the Social Sciences
HIST 356-3	Soviet History	or STAT 2	240-3 Basic Statistics
HIST 380-3	Modern Mexico	INTS 100-3	Introduction to Global Studies
NORS 331-3	Contemporary Issues of the Circumpolar North 1	INTS 210-3	Globalizations
NORS 332-3	Contemporary Issues of the Circumpolar North 2	POLS 100-3	Contemporary Political Issues
POLS 303-3	Democracy and Democratization	POLS 200-3	Canadian Government and Politics
POLS 309-3	Politics and Society in China	POLS 202-3	Canada in Comparative Perspective
POLS 370-3	Political Philosophy: Early Modernity to	POLS 270-3	Political Philosophy: Antiquity to Early Modernity
	Post-Modernity	POLS 290-3	Research and Writing for Political Science
POLS 372-3	Theories of Justice		Ü
POLS 405-3	Topics in Society and Democracy	Upper-Divisi	ion Requirement
POLS 413-3	Democracy and Diversity	oppor bivio	ion rioquiromone
POLS 414-3	Comparative Federalism	INTS 310-3	Origins and Evolution of Our Globalizing World
POLS 427-3	Ethics and Public Affairs	11410 010 0	origino and Evolution of our diobalizing world
WMST 302-3	Women and the Contemporary World	Twelve addition:	al credit hours of upper division Global and
WMST 304-3	Contemporary Women's Writing in an International	International Stu	• •
	Frame	intornational ott	
WMST 306-3	Indigenous Women: Perspectives	POLS 303-3	Democracy and Democratization
WMST 311-3	History of Feminism	POLS 370-3	Political Philosophy: Early Modernity to
WMST 312-3	An Introduction to the History of Gender	1 020 07 0 0	Post-Modernity
			. Got moustimy
Global political e	conomy and development theme	One of:	
ANTH 415-3	Economic Anthropology	POLS 305	5-3 United States Politics
COMM 303-3	Introduction to International Business	POLS 309	
COMM 432-3	Cross-cultural Workplace Practices	POLS 31	-
COMM 441-3	International Marketing	POLS 314	
ECON 308-3	International Economic Relations	POLS 315	
ECON 321-3	Economics of Developing Countries		World
ECON 404-3	Poverty, Inequality and Development	POLS 380	
GEOG 306-3	Geography of International Development: Places,	. 020 000	o o zam ana nongman oopioo
	People, Policies and Promises	One of:	
POLS 415-3	Comparative Northern Development	POLS 405	5-3 Topics in Society and Democracy
	•	POLS 414	
Elective and	Academic Breadth	POLS 415	•
		POLS 480	·
Electives at any level in any subject sufficient to ensure completion			

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Economics/International Studies Joint Major

See calendar entry under Economics

Six additional credit hours of 400 level Political Science courses Six additional credit hours of 300 or 400 level Global and International

Studies or Political Science courses.

Language and Regional Studies Requirement

One of:	
GEOG 220-3	World Regions: Latin America and the Caribbean
GEOG 222-3	World Regions: Russia
HIST 218-3	Republican Latin America
INTS 200-3	Contemporary Russia
INTS 203-3	Contemporary Japan
INTS 204-3	Contemporary China
INTS 207-3	Contemporary Latin America
INTS 240-3	Contemporary Circumpolar North

Twelve (12) credit hours of Global and International Studies language courses. At least two courses must be in one language.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in Global and International Studies

Students must complete a total of 18 credit hours of Global and International Studies course work, of which 6 credit hours are INTS 100-3 and INTS 210-3.

Students must complete:

INTS 100-3 Introduction to Global Studies

INTS 210-3 Globalizations

Twelve (12) additional credit hours of upper-division Global and International Studies (INTS) courses.

A maximum of two courses (6 credit hours) used to fulfill the requirements for a major (or another minor) may also be used to fulfill the requirements for the minor in Global and International Studies.

There is no language requirement for the minor.

Health Sciences (BHSc Program)

- Biomedical Studies
- Community and Population Health Aboriginal and Rural Health
- Community and Population Health Environmental Health

Shannon Wagner, Professor and Chair

Henry Harder, Professor Ranjana Bird, Professor Sarah de Leeuw, Associate Professor Luke Harris, Associate Professor Peter MacMillian, Associate Professor Margot Parkes, Associate Professor and Canada Research Chair Kevin Smith, Associate Professor Chelsea Pelletier, Assistant Professor Mamdouh Shubair, Assistant Professor Sandra Allison, Adjunct Professor Russ Callaghan, Adjunct Professor Darby Eakins, Adjunct Professor Anne George, Adjunct Professor Candida Graham, Adjunct Professor Josée Lavoie, Adjunct Professor Sheona Mitchell, Adjunct Professor Geoffrey Payne, Adjunct Professor Tammy Klassen-Ross, Instructor Sarah Hewko, Senior Lab Instructor Anne Sommerfeld, Senior Lab Instructor Website: www.unbc.ca/health-sciences/undergraduate

The Bachelor of Health Sciences degree is a four-year program consisting of a range of courses that relate directly to the science of health, in the recognition that health is a complex entity defying a simple explanation or a single disciplinary perspective. The courses identified within the School of Health Sciences offer learning opportunities from a variety of disciplines, including the life sciences, social sciences, behavioural sciences, and ethics and law, to enable students to develop a body of knowledge and understanding relating to the dimensions of health. Some of these courses are considered to be 'core' and therefore central to the basic understandings of health, while others offer the student opportunities to learn about a specific health perspective that is focused on one of three Majors:

- i. Biomedical Studies
- ii. Community and Population Health-Aboriginal and Rural Health
- iii. Community and Population Health-Environmental Health

Graduation from either of the Community and Population Health Majors enables students to embark on careers or graduate programs related to health care management, administration, information systems or public health.

Students pursuing the Biomedical Studies Major are required to complete a set of courses that enables them to be prepared for application to professional programs, such as medicine, nursing, pharmacy, occupational therapy, dentistry, speech pathology or

physiotherapy. This major provides a foundational, multidisciplinary knowledge base that is focused on the natural and physical sciences, and social sciences, and includes population health and research methodology. Students interested in other fields requiring extensive biomedical laboratory skills may enroll degree in Biochemistry and Molecular Biology (BCMB).

All students graduating with the Bachelor of Health Sciences degree will have developed critical analytical skills, life-long learning skills, and the ability to work from the evidence of best practice.

General Requirements

To be awarded the BHSc degree, students are required to complete 122 credit hours of University-level courses consisting of 64 credit hours of common requirements for all BHSc students, with the remainder coming from the following majors, and electives:

Biomedical Studies: Students take 34 credit hours of courses from the Biomedical Studies Major and 24 elective credit hours.

Community and Population Health-Aboriginal and Rural Health:

Students take 21 credit hours from the common course requirements for both Community and Population Health Majors, as well as a minimum of 12 credit hours (6 specified, 6 with some choice) in Aboriginal and Rural Health-related courses, thus adding to a focus of knowledge and understanding of this specific subject material. The remaining 25 credit hours are obtained from elective credit hours.

Community and Population Health - Environmental Health:

Students take 21 credit hours from the common course requirements for both Community and Population Health Majors, as well as a minimum of 12 credit hours (6 specified, 6 with some choice) in Environmental Health-related courses. The remaining 25 credit hours are obtained from elective credit hours.

Students enrolling in Health Sciences courses with prerequisites are required to have completed all prerequisite courses for those courses with a C or better, or have permission to enroll from the School Chair.

To change BHSc majors, students must apply through Student Advising.

Admission Requirement

Admission to the Bachelor of Health Sciences program is based on academic qualifications and available space. At the time of application, students must specify whether they intend to pursue either the Biomedical Studies Major or one of the two Community and Population Health Majors. Priority admission is given to students who meet admission criteria and apply by the deadline of February 1. Applications received after the deadline may be reviewed based on available space in the program. Self-identified Aboriginal applicants who meet or exceed the minimum requirements for admission to the program are given priority for up to twenty percent (20%) of the first-year seats for the Bachelor of Health Sciences program.

Applicants from BC and Yukon secondary schools must:

- Meet the basic UNBC admission requirements, and
- Have completed Principles of Mathematics 11 or Pre-Calculus 11, Chemistry 11, Biology 12, English 12 and other approved Grade 12 courses as specified in the Admissions sections of the Undergraduate Calendar with a minimum of C+ (70%) in each course.

Other Applicants must:

- Meet UNBC admission requirements, and
- Have completed the equivalent of Principles of Mathematics 11 or Pre-Calculus 11, Chemistry 11, Biology 12, English 12, and other approved Grade 12 courses as specified in the Admissions section of the Undergraduate Calendar with a minimum of C+ (70%) in each course.

Students interested in specializing in the Biomedical Studies Major are strongly encouraged to take: Pre-Calculus 12, or Principles of Mathematics 12, and Chemistry 12 before entering the Program.

Common Requirements: All Majors

In order to meet the graduation requirements for a BHSc all students must successfully complete the following common requirements consisting of 64 credit hours. It is recommended that students take the courses listed below in the year of study indicated:

1st year - 20 credit hours

BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laboratory
BIOL 124-1	Introductory Biology II Laboratory
FNST 100-3	The Aboriginal Peoples of Canada
HHSC 101-3	Introduction to Health Science I: Issues and
	Controversies
HHSC 103-3	Health Care Systems
HHSC 105-3	Functional Anatomy

2nd year - 18 credit hours

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BIOL 20	3-3	Microbiology
HHSC 20	1-3	Ethics and Law in Health Care
HHSC 31	1-3	Nutrition
PSYC 10	1-3	Psychology as a Science
PSYC 102	2-3	Psychology and Human Problems
STAT 240)-3	Basic Statistics
or l	ECON 20	5-3 Statistics for Business and the Socia
		Sciences

3rd year - 17 credit hours

FNST 302-3	First Nations Health and Healing
HHSC 305-3	Human Physiology I
HHSC 325-1	Human Physiology I Lab
HHSC 306-3	Human Physiology II
HHSC 326-1	Human Physiology II Lab
HHSC 351-3	Research Design and Methods for Health Sciences
PSYC 309-3	Introduction to Health Psychology

4th year - 9 credit hours

HHSC 401-3	Principles of Epidemiology
HHSC 471-3	Health and Chronic Disease Management
PSYC 345-3	Lifespan Development
or SOCW	421-3 Human Growth and Development

Major in Biomedical Studies

Students pursuing a major in Biomedical Studies are required to complete the following 34 credit hours of courses. It is recommended that students take the courses listed below in the year of study indicated:

1st year - 14 credit hours

CHEM 100-3	General Chemistry I
CHEM 120-1	General Chemistry Lab I
CHEM 101-3	General Chemistry II
CHEM 121-1	General Chemistry Lab II

Two of:

ENGL 100-3	Introduction to Literary Structures
ENGL 102-3	Introduction to Poetry
ENGL 103-3	Introduction to Fiction
ENGL 104-3	Introduction to Film
ENGL 170-3	Writing and Communication Skills

2nd year - 14 credit hours

BIOL 210-3	Genetics
CHEM 201-3	Organic Chemistry I
CHEM 250-1	Organic Chemistry Lab I
CHEM 203-3	Organic Chemistry II
CHEM 251-1	Organic Chemistry Lab II
CHEM 204-3	Introductory Biochemistry

3rd and 4th years - 6 credit hours

BIOL 311-3	Cell and Molecular Biology
BCMB 306-3	Intermediary Metabolism

A total of 9 elective credit hours in upper division (300 and 400 level) from any discipline are required for degree completion.

Note: Students intending to apply to professional health degree programs are encouraged to take the following courses as electives: PHYS 110-4, PHYS 111-4, MATH 100-3 and MATH 101-3.

Majors in Community and Population Health

Students pursuing a major in either Community and Population Health-Aboriginal and Rural Health, or Community and Population Health-Environmental Health are required to complete the following 27 credit hours. It is recommended that students take the courses listed below in the year of study indicated:

1st year - 6 credit hours

Chemistry of Everyday Life CHEM 110-3 or CHEM 100-3 General Chemistry I

One of:

ENGL 100-3 Introduction to Literary Structures ENGL 102-3 Introduction to Poetry ENGL 103-3 Introduction to Fiction ENGL 104-3 Introduction to Film ENGL 170-3 Writing and Communication Skills

2nd year - 6 credits

ECON 210-3 Introduction to Health Economics and Policy or GEOG 202-3 Economic Geography of Resources and Sustainability

Introduction to Health Science II: Rural and HHSC 102-3

Aboriginal Issues

4th year - 9 credits

HHSC 421-3 Medical Geography or ENVS 306-3 Human Ecology HHSC 473-3 Health Promotion

SOCW 444-3 Social Work Critical Issues in Aging

In addition to the 21 credit hours listed above, students pursuing a major in either Community and Population Health-Aboriginal and Rural Health, or Community and Population Health-Environmental Health, are required to complete 12 credit hours focused in either Aboriginal and Rural Health or Environmental Health, specific to their major, as listed below.

Major in Community and Population Health - Aboriginal and Rural Health

Students must take:

ENPL 313-3 Rural Community Economic Development FNST 303-3 First Nations Religion and Philosophy Indigenous Environmental Philosphy or FNST 304-3

Students must take an additional 6 credit hours from the following list, of which at least 3 credit hours must be upper-division.

Please not that some of these courses may require additional prerequisites:

ANTH 201-3	Medical Anthropology
ANTH 206-3	Ethnography in Northern British Columbia
ECON 410-3	Health Economics
FNST 249-3	Aboriginal Resource Planning
FNST 305-3	Seminar in First Nations Studies
POLS 403-3	Social and Health Policy and Administration
SOCW 440-3	Social Work and Mental Health
SOCW 441-3	Social Work and Substance Abuse
SOCW 443-3	Medical Social Work

Major in Community and Population Health – Environmental Health

Students must take:

ECON 410-3

ENPL 205-3 **Environment and Society**

ENSC 308-3 Northern Contaminated Environments

Health Economics

Students must take an additional 6 credit hours from the following list (please note that some of these courses may require additional prerequisites):

ENPL 208-3	First Nations Community and Environmental Planning
ENPL 304-3	Mediation, Negotiation and Public Participation
HIST 360-3	An Introduction to Environmental History
INTS 470-3	Global Environmental Governance
NREM 306-3	Society, Policy and Administration
or POLS 34	4-3 Society, Policy and Administration of Natural
	Resources
POLS 403-3	Social and Health Policy and Administration

Elective and Academic Breadth for all BHSC Majors

Electives at any level sufficient to ensure completion of a minimum 122 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Bachelor of Health Sciences Honours (BHSc, Honours)

Entry to the Honours Program takes place after the end of the second year (i.e., upon completion of 60 credit hours) and requires a minimum CGPA of 3.33 over the most recent 30 credit hours or permission of the School Chair. Consultation with Student Advising is highly recommended before applying. Attaining the minimum requirement does not guarantee entry to the honours program, which is at the discretion of the School Chair. Subsequent to entry and to remain in the honours program, students must maintain a minimum SGPA of 3.33 in each semester. All honours students complete a thesis project (HHSC 490-6 Honours Thesis) under the direct supervision of a faculty member.

To be awarded the BHSc Honours degree, students are required to complete 128 credit hours. This consists of 64 credit hours of common requirements for all BHSc students, with the remainder coming from the following majors, and electives, as follows:

Biomedical Studies: Students take 34 credit hours of courses from the Biomedical Studies Major; 21 elective credit hours of which at least 9 credit hours must be at the Health Sciences upper level; and the following 9 Honours credit hours:

HHSC 490-6 Honours Thesis HHSC 497-3 Senior Seminar

Community and Population Health - Aboriginal and Rural Health:

Students take 21 credit hours from the common course requirements for both Community and Population Health Majors, as well as a minimum of 12 credit hours (6 specified, 6 chosen) in Aboriginal and Rural Health-related courses; 22 credit hours are obtained from elective credit hours; and the following 9 Honours credit hours:

HHSC 490-6 Honours Thesis HHSC 497-3 Senior Seminar

Community and Population Health - Environmental Health:

Students take 21 credit hours from the common course requirements for both Community and Population Health Majors, as well as a minimum of 12 credit hours (6 specified, 6 chosen) in Environmental Health-related courses; 22 credit hours are obtained from elective credit hours; and the following 9 Honours credit hours:

HHSC 490-6 Honours Thesis HHSC 497-3 Senior Seminar

The minimum requirement for completion of a BHSc Honours is 128 credit hours.

All Honours Thesis research must comply with the Research Ethics Board requirements and is carried out at the discretion of the School of Health Sciences.

History (BA Program)

Charles Jago, Professor Emeritus Gordon Martel, Professor Emeritus William Morrison, Professor Emeritus

Theodore Binnema, Professor and Chair Jonathan Swainger, Professor Jacqueline Holler, Associate Professor Dana Wessell Lightfoot, Associate Professor Benjamin Bryce, Assistant Professor

Website: www.unbc.ca/history

Tracing the origins of their discipline to the Ancient Greek scholar Herodotus (fifth century B.C.E.), historians examine the records of the human past, with the goal of understanding change over time. We are particularly interested in establishing cause and effect in the patterns of how society, politics, economies, culture, identity, and thought developed. Traditionally, historians have examined prominent individuals or critical events in politics, warfare, diplomacy, economics and intellectual activity. But in recent decades, the scope of historical study has expanded to encompass a wide range of phenomena and a broad spectrum of society. Women's roles in history, the daily life of ordinary men and women in the past, and the impact of imperialism and colonialism are just a few of the topics that have come under intense historical scrutiny in recent years. Of particular interest to the current generation of historians are the relationship of the individual to society; encounters between diverse cultures; the dynamics of class, race, and gender; and the expression of power and authority (political, social, or cultural).

The study of history has direct relevance on the present. It provides an enlightening perspective on the cultures and societies of the past and on how the ideals, institutions, and issues of today arose and evolved over time. The discipline of History also requires intellectual rigour, and cultivates critical thinking, creative analysis, and both oral and written communication skills. History majors are highly sought after in fields such as law, education, journalism, business, government service, and "public history" (i.e., museums, historical sites, and archives). A History major is also an ideal foundation for graduate study in the Humanities and Social Sciences.

Major in History

A degree in History requires students to complete 54 credit hours of History courses, at least 30 credit hours of which must be upper-division courses.

The minimum requirement for completion of a Bachelor of Arts with a major in History is 120 credit hours.

Program Requirements

Lower-Division Requirement

100 and 200 Level

HIST 190-3 World History to 1550 HIST 191-3 World History since 1550

Twelve additional credit hours in 200-level History courses.

Upper-Division Requirement 300 and 400 Level

HIST 300-3 Historiography: The Nature of the Historical

Discipline

Eighteen credit hours of History at the 300 level, in addition to HIST 300-3.

Nine credit hours of History at the 400 level.

Subject Requirement

Six additional credit hours of History at any level to ensure completion of 54 credit hours of History in total.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

BA Honours – History

The BA Honours - History provides a higher level of training and specialization for students planning to proceed to postgraduate work or professional schools. The program of study is offered to students majoring in history who have completed their first two years (60 credit hours).

In order to enter the honours degree program, students must have completed HIST 190-3 World History to 1550 and HIST 191-3 World History since 1550; 12 credit hours in 200-level history courses; HIST 300-3 (Historiography: The Nature of the Historical Discipline), and have attained a cumulative GPA of no less than 3.33 upon completion of second year (i.e., 60 credit hours). Having fulfilled the requirements of admission to the History honours degree program, students must then complete 18 credit hours in 300-level history courses; 15 credit hours in 400-level history courses; and 12 credit hours in four additional history courses designed for honours students, for a total of 66 credit hours as a component of an undergraduate degree totalling 120 credit hours. These honours history courses are designed to be taken in the sequence indicated, which can be altered only under exceptional circumstances and with the permission of the Chair.

HIST 501-3	Honours Directed Readings
	(September Term of third year)
HIST 500-3	Historiography: Contemporary Theories and Methods
	(January Term of third year)
HIST 505-6	Honours Thesis

(September & January Term of fourth year)

A Cumulative GPA of not less than 3.33 must be maintained while in the honours program.

The minimum requirement for completion of a BA Honours - History is 120 credit hours.

English/History Joint Major

See Calendar entry under English.

Joint Major in History/Political Science

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in History and Political Science is 120 credit hours.

Program Requirements

Lower-Division Requirement

HIS	Г 190-3	World History to 1550
HIS	Γ 191-3	World History since 1550
POL	S 100-3	Contemporary Political Issues
ECC	N 205-3	Statistics for the Social and Management Sciences
	or STAT 240	0-3 Basic Statistics
POL	S 200-3	Canadian Government and Politics
POL	S 202-3	Canada in Comparative Perspective
POL	.S 270-3	Political Philosophy: Antiquity to Early Modernity
POL	S 290-3	Research and Writing for Political Science

Nine credit hours of History at the 100 or 200 level.

Upper-Division Requirement

HIST 300-3	Historiography: The Nature of the Historical
	Discipline
POLS 303-3	Democracy and Democratization
POLS 320-3	Canadian Politics and Policy
POLS 370-3	Political Philosophy: Early Modernity to
	Post-Modernity

Nine credit hours in Political Science at the 400 level.

Eighteen credit hours in History at the 300 or 400 level.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Joint Major in History/Women's Studies

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in History and Women's Studies is 120 credit hours.

Program Requirements

Lower-Division Requirement

HIST 190-3	World History to 1550
HIST 191-3	World History since 1550
WMST 100-3	Introduction to Women's Studies

Six additional credit hours of History at the 100 or 200 level.

Six additional credit hours of Women's Studies at the 100 or 200 level.

Upper-Division Requirement

WMST 302-3 WMST 307-3 HIST 300-3	Women and the Contemporary World Qualitative Research Methods Historiography: The Nature of the Historical Discipline
HIST 309-3	Women in Canada
WMST 311-3/	
HIST 311-3	History of Feminism
WMST 312-3/	
HIST 312-3	An Introduction to the History of Gender
HIST 453 (3-6)	Topics in History of Gender
HIST 454 (3-6)	Topics in Women's History

Nine additional credit hours of History at the 300 or 400 level.

Additional Requirement

Twelve additional credit hours selected from the following:

WMST 304-3 Contemporary Women's Writings in an International Frame WMST 309-3 Gender and Film WMST 306-3 Indigenous Women: Perspectives WMST 401-3 Cultural Studies: Race, Gender, Representation WMST 410-3 Feminist Political Philosophy WMST 411-3 Contemporary Feminist Theories WMST 413-(3-6)/ FNST 413-(3-6)/ FNST 413-(3-6) WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) ANTH 401-3 Anthropological Perspectives on Inequality ANTH 406-3 Feminist Perspectives in Anthropology	WMST 303-3	Lesbian and Bisexual Lives
WMST 309-3 Gender and Film WMST 306-3/ FNST 306-3 Indigenous Women: Perspectives WMST 401-3 Cultural Studies: Race, Gender, Representation WMST 410-3 Feminist Political Philosophy WMST 411-3 Contemporary Feminist Theories WMST 413-(3-6)/ FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) Selected Topics ANTH 401-3 Anthropological Perspectives on Inequality	WMST 304-3	Contemporary Women's Writings in an International
WMST 306-3/ FNST 306-3 Indigenous Women: Perspectives WMST 401-3 Cultural Studies: Race, Gender, Representation WMST 410-3 Feminist Political Philosophy WMST 411-3 Contemporary Feminist Theories WMST 413-(3-6)/ FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) ANTH 401-3 Anthropological Perspectives on Inequality		Frame
FNST 306-3 Indigenous Women: Perspectives WMST 401-3 Cultural Studies: Race, Gender, Representation WMST 410-3 Feminist Political Philosophy WMST 411-3 Contemporary Feminist Theories WMST 413-(3-6)/ FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) ANTH 401-3 Anthropological Perspectives on Inequality	WMST 309-3	Gender and Film
WMST 401-3 Cultural Studies: Race, Gender, Representation WMST 410-3 Feminist Political Philosophy WMST 411-3 Contemporary Feminist Theories WMST 413-(3-6)/ FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) ANTH 401-3 Anthropological Perspectives on Inequality	WMST 306-3/	
WMST 410-3 Feminist Political Philosophy WMST 411-3 Contemporary Feminist Theories WMST 413-(3-6)/ FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) ANTH 401-3 Anthropological Perspectives on Inequality	FNST 306-3	Indigenous Women: Perspectives
WMST 411-3 Contemporary Feminist Theories WMST 413-(3-6)/ FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) Selected Topics ANTH 401-3 Anthropological Perspectives on Inequality	WMST 401-3	Cultural Studies: Race, Gender, Representation
WMST 413-(3-6)/ FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) Selected Topics ANTH 401-3 Anthropological Perspectives on Inequality	WMST 410-3	Feminist Political Philosophy
FNST 413-(3-6) Topics in Aboriginal Women's Studies WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) Selected Topics ANTH 401-3 Anthropological Perspectives on Inequality	WMST 411-3	Contemporary Feminist Theories
WMST 420-3/ ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) Selected Topics ANTH 401-3 Anthropological Perspectives on Inequality	WMST 413-(3-6)/	,
ENGL 410-3 Contemporary Women's Literature WMST 498 (3-6) Selected Topics ANTH 401-3 Anthropological Perspectives on Inequality	FNST 413-(3-6)	Topics in Aboriginal Women's Studies
WMST 498 (3-6) Selected Topics ANTH 401-3 Anthropological Perspectives on Inequality	WMST 420-3/	
ANTH 401-3 Anthropological Perspectives on Inequality	ENGL 410-3	Contemporary Women's Literature
	WMST 498 (3-6)	Selected Topics
ANTH 406-3 Feminist Perspectives in Anthropology	ANTH 401-3	Anthropological Perspectives on Inequality
	ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3 Women in Organizations	COMM 333-3	Women in Organizations
F00N1004 0 NV LIL F	ECON 301-3	Women and the Economy
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ENVS 309-3	Gender and Environment
FNST 407-3	Race, Class, Gender, Power
INTS 308-3	Gender and International Studies
NURS 412-3	Women and Health
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender and Sexuality

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credit hours necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in History

The minor in History provides students with an understanding of how to evaluate historical sources and historical writings and with specialized knowledge of historical processes in fields of the student's choosing.

The minor in History requires students to take at least 24 credit hours in History, of which 18 must be upper-division. A maximum of two courses (6 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in History.

Program Requirements

HIST 190-3	World History to 1550
HIST 191-3	World History since 1550
HICT 300-3	Historiagraphy: The Nature of

HIST 300-3 Historiography: The Nature of the Historical

Discipline

Fifteen additional credit hours of 300- or 400- level History courses.

Integrated Analytical Skills & Knowledge Program

Paul Bowles, Professor Heather Smith, Professor Lisa Dickson, Associate Professor Ross Hoffman, Associate Professor Tracy Summerville, Associate Professor and Coordinator

The Integrated Analytical Skills & Knowledge Program at UNBC offers first-year students a rich and unique learning experience. Supported by seven academic units in the College of Arts, Social and Health Sciences (Anthropology, Economics, English, First Nations Studies, International Studies, Political Science, and Northern Studies), IASK delivers an integrated and interdisciplinary curriculum. IASK is cohort based: small groups of students will work together across courses. Intake for IASK is limited to 65 students who self-select to take part in the Program. IASK courses are accepted as meeting the degree requirements for the seven departments listed above.

The IASK is made up of 18 credit hours spread out over two terms. However, IASK does not occupy the full first year, as students can register for other courses and programs. That is, 9 credit hours are taken in the September Semester and 9 credit hours are taken in the January Semester. The courses blend content and teaching in ways that prepare students for success in university and beyond.

Curriculum in IASK focuses on learning outcomes and on content breadth across the Liberal Arts. Learning outcomes in IASK include the following: 1) Appropriate depth and breadth of knowledge and skills; 2) Analytical, critical, and creative thinking skills; 3) Liberality, inclusiveness, and an appreciation of diversity; 4) Personal growth, leadership skills and effective communication; 5) Life-long learning and intellectual development; 6) Engaged citizenship from the local to global levels.

IASK is recommended for students entering UNBC for the first time in one of the seven academic units listed above and who desire to work with a small group of students in a learning environment designed to facilitate student engagement with their peers. Through interaction with a small group of professors, this program will also assist first-year students to achieve improved academic performance throughout their four years at UNBC.

Curriculum:

- IASK 101-3 Ways of Knowing
- IASK 102-3 Waves of Globalization
- IASK 103-3 Foundations of Learning I
- IASK 104-3 Peoples, Places and Culture
- IASK 105-3 What is Security?
- IASK 106-3 Foundations of Learning II
- IASK 107-3 Special Topics

Mathematics and Statistics (BSc Program)

Jennifer Hyndman, Professor and Chair Iliya Bluskov, Professor Kevin Keen, Professor Pranesh Kumar, Professor Sam Walters, Professor Dan Ryan, Associate Professor Edward Dobrowolski, Assistant Professor Erin Beveridge, Senior Lab Instructor

Website: www.unbc.ca/math-statistics

The Department of Mathematics and Statistics provides undergraduate and postgraduate instruction and training in pure mathematics, applied mathematics, and statistics. A Bachelor of Science degree is available in Mathematics, as well as joint BSc degrees in Mathematics and Physics, Economics and Mathematics, Chemistry and Mathematics, and Computer Science and Mathematics.

In addition, there is a minor in Mathematics and a minor in Statistics. A graduate degree (MSc—Mathematics) is also supported by the Department of Mathematics and Statistics. Students interested in graduate studies are advised to consult the UNBC Graduate Calendar for further information.

The Department of Mathematics and Statistics offers Mathematics and Statistics service courses to students in the biological sciences, health sciences, management, economics, social sciences, and other areas.

Some sections of introductory calculus are enhanced through the use of computer software which provides exceptional computational power and high-quality graphical display. Introductory statistics courses teach the use of statistical analysis software to analyze data.

An important feature of the Mathematics degree program is the early emphasis on the development of abstract reasoning and the relation of the abstract to the concrete. The degree requirements have been chosen so as to provide students with a broad background in Mathematics while still leaving them room to pursue individual interests.

For more information please visit our website at www.unbc.ca/math-statistics.

Major in Mathematics

A major in Mathematics requires 17 MATH or STAT courses (51 credit hours), at least 30 credit hours of which must be upper-division courses: and, of those upper-division credit hours, at least 12 must be taken at the 400 level.

MATH 342-3 (Biostatistics) may not be used for credit towards any Mathematics major, minor, or joint major.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

The minimum requirement for completion of a Bachelor of Science with a major in Mathematics is 120 credit hours.

Program Requirements

Note: Unless otherwise stated, students enrolling in any MATH or STAT courses with prerequisites are required to have completed all prerequisite courses for that course with a C- or better, or have permission to enroll from the Department Chair.

Literacy Requirement

One of:

ENGL 170-3 Writing and Communication Skills

ENGL 270-3 Expository Writing

Lower-Division Requirement

100 Level

CPSC 100-4 Computer Programming I

CPSC 141-3 Discrete Computational Mathematics

MATH 100-3 Calculus I

or MATH 105-3 Enriched Calculus

MATH 101-3 Calculus II

200 Level

MATH 200-3 Calculus III

MATH 201-3 Introduction to Complex Analysis

MATH 220-3 Linear Algebra

MATH 224-3 Foundations of Modern Mathematics

MATH 230-3 Linear Differential Equations and Boundary Value

Problems

Recommended

CPSC 101-4 Computer Programming II

CPSC 242-3 Mathematical Topics for Computer Science

General Science Requirement

Two of:

BIOL 103-3 Introductory Biology I

and BIOL 123-1 Introductory Biology I Laboratory

BIOL 104-3 Introductory Biology II

and BIOL 124-1 Introductory Biology II Laboratory

CHEM 100-3 General Chemistry I

and CHEM 120-1 General Chemistry Lab I

CHEM 101-3 General Chemistry II

and CHEM 121-1 General Chemistry Lab II

PHYS 100-4 Introduction to Physics I or PHYS 110-4* Introductory Physics I:

PHYS 111-4* Introductory Physics II: Waves and Electricity

*Note: PHYS 110-4 (Introductory Physics I: Mechanics) and PHYS 111-4 (Introductory Physics II: Waves and Electricity) are strongly recommended for all majors.

Upper-Division Requirement

300 Level

MATH 302-3 Introductory Mathematical Analysis

MATH 320-3 Survey of Algebra

MATH 336-3 Intermediate Differential Equations

or MATH 335-3 Numerical Analysis I

STAT 371-3 Probability and Statistics for Scientists and

Engineers

STAT 372-3 Mathematical Statistics

300 or 400 Level

MATH 326-3 Advanced Linear Algebra or MATH 405-3 Topology

400 Leve

Twelve additional credit hours of 400-level MATH or STAT courses.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

BSc Honours – Mathematics

The Honours in Mathematics recognizes undergraduate students who develop a breadth of knowledge through courseswork and research. Studetns considering graduate work or industrial research gain experience and confidence in working in areas where the outcome is unknown.

Entry into the Mathematics Honours Program takes place after completion of 60 credit hours and requires a minimum Cumulative GPA of 3.33 over the previous 30 credit hours, and the permission of the Department Chair. Candidates are required to consult with their Student Advisor prior to applying for the program. Attainting the minimum requirement does not guarantee entry to the Honours Program, which is at the discretion of the Department of Mathematics and Statistics and depends on the availability of a supervisor. Faculty members are under no obligation to supervise Honours students. To remain in the Honours Program requires the maintenance of a minimum Cumulative GPA of 3.33.

To be awarded the BSc Honours degree students will:

- complete 126 credit hours
- satisfy the requirements for a BSc in Mathematics
- within the existing 400-level requirements take
 - one of MATH 420-3 Structure of Groups and Rings or MATH 421-3 Field Theory
 - one of MATH 402-3 Topological and Normed Linear Spaces or MATH 403-3 Measure Theory and Integration
 - one of STAT 471-3 Linear Models, or STAT 472-3 Survey Sampling Design and Analysis, or STAT 473-3 Experimential Design and Analysis
- complete 6 credit hours of MATH 530 or STAT 530, with the outcome of one undergraduate thesis under the supervision of a faculty member.

Note: Because faculty are under no obligation to supervise undergraduate theses, students are encouraged to find an Undergraduate Thesis supervisor well in advance of completing 90 credit hours.

Chemistry/Mathematics Joint Major

See Calendar entry under Chemistry.

Computer Science/Mathematics Joint Major

See Calendar entry under Computer Science.

Joint Major in Mathematics/Physics

The minimum requirement for completion of a Bachelor of Science with a Joint Major in Mathematics and Physics is 125 credit hours.

MATH 150-3 (Finite Mathematics for Business and Economics) may not be used for credit towards any Mathematics major or joint major.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

Program Requirements

Lower-Division Requirement

CPSC 100-4	Computer Programming I
MATH 100-3	Calculus I
or MATH 1	05-3 Enriched Calculus
MATH 101-3	Calculus II
MATH 200-3	Calculus III
MATH 201-3	Introduction to Complex Analysis
MATH 220-3	Linear Algebra
MATH 230-3	Linear Differential Equations and Boundary Value
	Problems
PHYS 110-4	Introductory Physics I: Mechanics
PHYS 111-4	Introductory Physics II: Waves and Electricity
PHYS 200-3	Thermal Physics
PHYS 202-4	Electromagnetism and Optics
PHYS 205-3	Modern Physics I
PHYS 206-4	Modern Physics II

Upper-Division Requirement

MATH 320-3 MATH 326-3 MATH 335-3 MATH 336-3 STAT 371-3	Survey of Algebra Advanced Linear Algebra Numerical Analysis I Intermediate Differential Equations Probability and Statistics for Scientists and Engineers
PHYS 300-3 PHYS 302-3 PHYS 310-3 PHYS 400-3 PHYS 407-3	Classical Mechanics Quantum Mechanics I Classical Electromagnetism I Quantum Mechanics II Statistical Mechanics

Subject Upper-Division Requirements: 9 additional upper-division credit hours are required from MATH or STAT courses, of which at least 6 must be at the 400 level. An additional 6 credit hours of the 300- or 400-level PHYS courses are required. Of these combined Subject Upper-Division Requirements, at least 9 credit hours must be at the 400 level.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 125 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Economics/Mathematics Joint Major

See Calendar entry under Economics.

Minor in Mathematics

The minor in Mathematics requires students to take 27 credit hours, 12 of which must be upper-division credits.

There is no limit to the number of courses that may be used to fulfill program requirements for a major (or another minor) and also a minor in Mathematics.

MATH 342-3 (Biostatistics) may not be used for credit towards the 12 credit hours of upper-division Mathematics course requirements for the Mathematics minor.

Requirements

100 Level

CPSC 141-3 Discrete Computational Mathematics

MATH 100-3 Calculus I

or MATH 105-3 Enriched Calculus

MATH 101-3 Calculus II

200 Level

MATH 200-3 Calculus III MATH 220-3 Linear Algebra

Twelve additional credit hours in Mathematics at the 300 or 400 level.

Minor in Statistics

The Minor in Statistics requires students to take 24 credit hours, 18 of which must be upper-division credit hours.

There is no limit to the number of courses that may be used to fulfill program requirements for a major or another minor with a Minor in Statistics.

Requirements

Lower-Division Requirement

MATH 100-3 Calculus I or MATH 105-3 Enriched Calculus MATH 101-3 Calculus II

Upper-Division Requirement

STAT 371-3 Probability and Statistics for Scientists and

Engineers

STAT 372-3 Mathematical Statistics

Four of:

BIOL 325-3	Ecological Analyses
ECON 312-3	Introduction to Econometrics
ENSC 450-3	Geophysical Data Analysis
GEOG 300-3	Geographical Information Systems
GEOG 413-3	Advanced GIS
GEOG 432-3	Remote Sensing
GEOG 457-3	Advanced Remote Sensing
HHSC 401-3	Principles of Epidemiology
STAT 441-3	Nonparametric Statistics
STAT 471-3	Linear Models
STAT 472-3	Survey Sampling Design and Analysis
STAT 473-3	Experimental Design and Analysis
STAT 475-3	Methods for Multivariate Data

Note: Students are required to complete any additional prerequisite courses.

Recommended

STAT 240-3 Basic Statistics

Natural Resources Management (BSc Program)

Staffan Lindgren, Professor Emeritis

Kathy Lewis, Professor and Chair

Annie Booth, Professor

Philip Burton, Professor

Mark Dale, Professor

Russell Dawson, Professor

Arthur Fredeen, Professor

Michael Gillingham, Professor

Ian Hartley, Professor

Dezene Huber, Professor

Chris Johnson, Professor

Hugues Massicotte, Professor

William McGill, Professor

Chris Opio, Professor

Ken Otter, Professor

Katherine Parker, Professor, and Ian McTaggart Cowan Muskwa

Kechika Research Professor

Mark Shrimpton, Professor

Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)

Scott Green, Associate Professor

Philip Mullins, Associate Professor

Paul Sanborn, Associate Professor

John Shultis, Associate Professor

Oscar Venter, Associate Professor, and Forest Renewal BC Endowed Chair in Growth and Yield and Forest Valuations

Pamela Wright, Associate Professor

Eduardo Martins, Assistant Professor

Farhad Moghimehfar, Assistant Professor

Lisa Poirier, Assistant Professor

Lisa Wood, Assistant Professor

Bryan Bogdanski, Adjunct Professor

Barbara Cade-Menun, Adjunct Professor

Allan Costello, Adjunct Professor

Craig Delong, Adjunct Professor

Marten Geertsema, Adjunct Professor

Susan Grainger, Adjunct Professor

Sybille Haeussler, Adjunct Professor

Doug Heard, Adjunct Professor

Michael Jull, Adjunct Professor

Pat Maher, Adjunct Professor

lan Picketts, Adjunct Professor

Thomas Pypker, Adjunct Professor

Richard Schuster, Adjunct Professor

Saphida Migabo, Senior Lab Instructor

Roy Rea, Senior Lab Instructor

Website: www.unbc.ca/forestry

Website: www.unbc.ca/outdoor-recreation-tourism-management

Website: www.unbc.ca/wildlife-fisheries

The Natural Resources Management program offers students an integrated resource management approach with specialization through majors in Forest Ecology and Management, Wildlife and Fisheries, and Outdoor Recreation and Conservation.

The recognition that management of any natural resource has implications for all other natural resources is a primary driving factor in the undergraduate curriculum for this degree program. Multiple and sustainable resource management is emphasized. The Forest Ecology and Management major is accredited by the Canadian Forestry Accreditation Board and meets certification requirements for the Association of BC Forest Professionals.

Government, industry and private experts assist in course presentations. The University has two research forests (Aleza Lake Research Forest, John Prince Research Forest) available to students in this program.

Major in Forest Ecology and Management

Undergraduate students are required to take a total of 96 credit hours of program core courses in addition to a qualified minor as outlined below.

The minimum requirement for completion of a Bachelor of Science with a major in Forest Ecology and Management is 123 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

BIOL 103-3	Introductory Biology I
BIOL 104-3	Introductory Biology II
BIOL 123-1	Introductory Biology I Laboratory
BIOL 124-1	Introductory Biology II Laboratory
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
ECON 100-3	Microeconomics
MATH 152-3	Calculus for Non-majors
NREM 100-3*	Field Skills
NREM 101-3	Introduction to Natural Resources Management and
	Conservation
NRES 100-3	Communications in Natural Resources and
	Environmental Studies

*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in any Natural Resource Management major.

200 Level

BIOL 201-3	Ecology
ENSC 201-3	Weather and Climate
FSTY 201-3	Forest Plant Systems
FSTY 205-3	Introduction to Soil Science
FSTY 207-1	Terrestrial Ecological Classification
FSTY 209-4	Forest Biology and Silvics
GEOG 205-3	Cartography and Geomatics
or GEOG 30	0-3 Geographic Information Systems
GEOG 210-3	Geomorphology
STAT 240-3	Basic Statistics
NRFM 203-3	Resource Inventories and Measurements

Upper-Division Requirement

300 Level

000 =010.	
ENVS 326-3	Natural Resources, Environmental Issues and Public
	Engagement
FSTY 305-4	Silviculture
FSTY 307-3	Disturbance Ecology and Forest Health
FSTY 317-1	Forest Disturbance Agents
FSTY 310-3	Forest Economics
or NREM 30	16-3 Society, Policy and Administration
NREM 303-3	First Nations' Approaches to Resource Management
NREM 333-3	Field Applications in Resource Management

400 Level		
FSTY 405-3	Forest Ecosystem Modelling	
FSTY 408-3	Forest Practices and Management	
NREM 400-4	Natural Resources Planning	
NREM 411-3	Environmental and Professional Ethics	
NRES 421-1	Professional Writing	
and NRES 422-2	Undergraduate Report	
or NRES 430-6 Undergraduate Thesis		

Minor requirement associated with Forest Ecology and Management major

Forest Ecology and Management students are required to complete a minor as part of their degree. The eligible minors will allow students to gain a solid foundation in numerous specialized areas of forest management.

Eliaible minors include:

- Biology and Conservation
- Earth Sciences
- Environmental Planning
- Environmental Science
- Environmental Studies
- Forest Recreation
- General Business
- Geographic Information Systems (GIS)
- Global Environmental Change
- Indigenous Ecological Knowledge
- Natural Resources Planning and Operations
- Social Dimensions of Natural Resources Management
- Soils and the Environment

Minors have different credit hours requirements, but for all minors, 12 credit hours must be at the upper-division (i.e., 300 or 400) level. Students must ensure that all prerequisite courses have been completed for elective choices in each minor. Beyond the specific minor requirements, students must complete elective credit hours as necessary to ensure completion of a minimum of 123 credit hours.

BSc Honours – Forest Ecology and Management

The Honours in Forest Ecology and Management offers students a higher level of education and research experience for proceeding to post graduate studies. Honours students are required to complete the degree requirements for the BSc Natural Resources Management (Forest Ecology and Management Major). In addition, required hours of electives credits must be at the 300 or 400 level and each student must complete a 6 credit-hour research thesis under the supervision of a faculty member.

Entry into the Honours Program takes place after the completion of 60 credit hours and requires a minimum Cumulative GPA of 3.33. Attaining the minimum requirement does not guarantee entry into the Honours Program, which is at the discretion of the Ecosystem Science and Management Program. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours Program.

Elective credit hours are determined to be the number of credit hours needed to ensure completion of a minimum of 123 credit hours, not including thesis.

Note: Students are responsible for finding their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise Honours students.

Major in Outdoor Recreation and Conservation

This BSc Major in Outdoor Recreation and Conservation focuses on the natural and human dimensions of outdoor recreation and conservation planning and management within an integrated natural resource management framework. Emphasis in this major is placed on planning and managing environmentally and culturally sensitive recreation and conservation opportunities in natural environment settings.

Northern British Columbia provides an unparalleled setting for learning, teaching, and researching the various aspects of outdoor recreation and conservation management. British Columbia has a large land base and a range of natural environments that support a vast array of dispersed and concentrated outdoor recreation opportunities. The program examines the components of planning and managing recreation opportunities through the study of such subject areas as ecology, integrated resource management, planning, protected areas management, environmental studies and geography (e.g., GIS).

Natural Resources Management

Students must complete a minimum of 120 credit hours through (a) the common degree requirements, (b) the Area of Specialization requirements and (c) elective credit hours in any subject.

Common Degree Requirements

Lower-Division Requirement

100 Level	
BIOL 103-3	Introductory
BIOL 123-1	Introductory
DIOI 104 2	Introductory

Biology I Biology I Laboratory

Introductory Biology II BIOL 104-3

BIOL 124-1 Introductory Biology II Laboratory

CHEM 100-3 General Chemistry I CHEM 101-3 General Chemistry II

> or PSYC 101-3 Psychology as a Science Introduction to Physics I or PHYS 100-4

Microeconomics ECON 100-3

or ENVS 101-3 Introduction to Environmental Citizenship or FNST 100-3 The Aboriginal Peoples of Canada

or GEOG 100-3 Environments and People: The Geography of Natural Hazards

NREM 100-3* Field Skills

ORTM 100-3 Foundations of Outdoor Recreation and Tourism

Management

Fcology

*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in any Natural Resource Management major.

200 Level BIOL 201-3

DIOL 201-3	Louidy
ECON 205-3	Statistics for the Social and Management Sciences
or STAT 240	-3 Basic Statistics
GEOG 204-3	Introduction to GIS for the Social Sciences
or GEOG 300	0-3 Geographic Information Systems
NREM 203-3	Resource Inventories and Measurements
or NREM 204	4-3 Introduction to Wildlife and Fisheries
or GEOG 210	0-3 Geomorphology
NREM 210-4	Integrated Resource Management
ORTM 200-3	Sustainable Recreation and Tourism
ORTM 205-3	Outdoor Skills and Leadership

Upper-Division Requirement

300 Level

NREM 303-3	First Nations' Approaches to Resource Management
or FNST 30-	4-3 Indigenous Environmental Philosophy
ORTM 300-3	Recreation and Tourism Impacts
ORTM 305-3	Protected Area Planning and Management
ORTM 310-3	Research Methods and Analysis
ORTM 332-3	Outdoor, Environmental, and Experiential Education
ORTM 333-3	Field School
400 Level	
NREM 400-4	Natural Resources Planning
NREM 411-3	Environmental and Professional Ethics
ORTM 400-3	Conservation Area Design and Management
ORTM 412-3	Issues and Trends in Recreation and Tourism

Two of:

ORTM 306-3*	Indigenous Tourism and Recreation
ORTM 403-3*	International Dimensions in Recreation and
	Tourism
ORTM 407-3*	Recreation, Tourism and Communities
ORTM 408-3*	The Psychology of Recreation and Tourism
ORTM 409-3*	Critical Approaches to Outdoor Recreation
	Activities
ORTM 414-3	Polar Tourism and Recreation
ORTM 498 (1-3)	Special Topics

*Note: Students should note that some senior-level ORTM classes are offered in alternating years.

Area of Specialization

Students must choose one of the following Areas of Specialization. Courses used to fulfill common degree requirements above may not be used to satisfy an Area of Specialization requirement.

- 1. Environmental Design and Planning
- 2. Conservation Education
- 3. Natural Science

ENPL 104-3

ENPL 204-3

4. Applications of Recreation and Tourism

Introduction to Planning

Principles and Practices of Planning

Environmental Design and Planning

BIOL 4	11-3 Cons	servation Biology
One of:		
E	ENPL 304-3	Mediation, Negotiation and Public Participation
E	ENVS 326-3	Natural Resources, Environmental Issues and Public Engagement
N	NREM 306-3	Society, Policy and Administration
One of:		
E	ENPL 303-3	Spatial Planning and Geographical Information Systems (GIS)
(ENPL 415-3 GEOG 432-3 NREM 410-3	Ecological Design Remote Sensing Watershed Management

Conservation Education

EDUC 101-3

Education Theory and Practice Introduction to Environmental Citizenship
Critical Approaches to Outdoor Recreation Activities
orman approaches to educate recordation retirmed
Plant Systems
Systematic Botany
Ichthyology and Herpetology
Ornithology and Mammalogy
Global Environmental Change: Science and
Policy

Introduction to Education

One of:	
BIOL 404-3	Plant Ecology
BIOL 411-3	Conservation Biology
BIOL 412-3	Wildlife Ecology
BIOL 420-3	Animal Behaviour
GEOG 432-3	Remote Sensing
NREM 410-3	Watershed Management

Natural Science

NREM 204-3	Introduction to Wildlife and Fisheries
FSTY 201-4	Plant Systems
or BIOL 204	I-3 Plant Biology
BIOL 411-3	Conservation Biology

Three of:

BIOL 202-3	Invertebrate Zoology
BIOL 301-3	Systematic Botany
BIOL 302-3	Limnology
BIOL 304-3	Plants, Society and the Environment
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 318-3	Fungi and Lichens
BIOL 322-3	Entomology
BIOL 333-3	Field School
BIOL 350-3	Ethnobotany
BIOL 402-3	Aquatic Plants
BIOL 404-3	Plant Ecology
BIOL 412-3	Wildlife Ecology
BIOL 420-3	Animal Behaviour
BIOL 421-3	Insects, Fungi and Society
ENVS 325-3	Global Environmental Change: Science and
	Policy
NREM 333-3	Field Applications in Resource Management

Applications of Recreation and Tourism

ORTM 202-3 Ecotourism and Adventure Tourism

Six credit hours of:	
ORTM 306-3*	Indigenous Tourism and Recreation
ORTM 403-3*	International Dimensions in Recreation and
	Tourism
ORTM 407-3*	Recreation, Tourism and Communities
ORTM 408-3*	The Psychology of Recreation and Tourism
ORTM 409-3*	Critical Approaches to Outdoor Recreation
	Activities
ORTM 414-3	Polar Tourism and Recreation
ORTM 433 (1-6)	Field Experience II
ORTM 440 (2-6)	Internship
ORTM 498 (1-3)	Special Topics

Two of:	
BIOL 204-3	Plant Biology
BIOL 301-3	Systematic Botany
BIOL 304-3	Plants, Society and the Environment
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 318-3	Fungi and Lichens
BIOL 333-3	Field School
BIOL 350-3	Ethnobotany
ENVS 306-3	Human Ecology
ENVS 325-3	Global Environmental Change: Science and
	Policy
NREM 333-3	Field Applications in Resource Management
BIOL 404-3	Plant Ecology
BIOL 411-3	Conservation Biology
BIOL 420-3	Animal Behaviour

Elective Requirements

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours.

BSc Honours – Outdoor Recreation and Conservation

The Honours in Natural Resource Management (Outdoor Recreation and Conservation) offers students a higher level of education and substantial research experience for proceeding to postgraduate studies.

To enter the Honours Program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum requirement will not guarantee entry into the Honours Program, which will be at the discretion of the Outdoor Recreation and Tourism Management Program. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours Program.

Honours students are required to complete the degree requirements for the BSc in NRM (Outdoor Recreation and Conservation). In addition, each student must also complete an additional 6 credit hours in the form of an undergraduate thesis (NRES 430-6) under the supervision of a faculty member.

Note: Students are responsible to find their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise Honours students.

ORTM 499 (1-6) Independent Study

Major in Wildlife and Fisheries

Undergraduate students are required to take 21 Biology and Natural Resources Management courses (65-66 credit hours). Of these, 14 courses must be upper division.

The minimum requirement for completion of a Bachelor of Science with a major in Wildlife and Fisheries is 123 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

BIOL 103-3	Introductory Biology I
	, 0,
BIOL 123-1	Introductory Biology I Laboratory
BIOL 104-3	Introductory Biology II
BIOL 124-1	Introductory Biology II Laboratory
CHEM 100-3	General Chemistry I
CHEM 101-3	General Chemistry II
CHEM 120-1	General Chemistry Lab I
CHEM 121-1	General Chemistry Lab II
MATH 152-3	Calculus for Non-majors
NREM 100-3*	Field Skills
NREM 101-3	Introduction to Natural Resources Management and
	Conservation
NRES 100-3	Communications in Natural Resources and
	Environmental Studies
or ENGL 17	0-3 Writing and Communication Skills
PHYS 115-4	General Introduction to Physics

*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in any Natural Resources Management major.

200 Level

BIOL 201-3	Ecology
BIOL 210-3	Genetics
CHEM 220-3	Organic and Biochemistry
FSTY 201-3	Forest Plant Systems
or BIOL 301	-3 Systematic Botany
FSTY 205-3	Introduction to Soil Science
FSTY 207-1	Terrestrial Ecological Classification
NREM 204-3	Introduction to Wildlife and Fisheries
STAT 240-3	Basic Statistics

or PHYS 100-4 Introduction to Physics I

Two of:

BIOL 202-3 Invertebrate Zoology BIOL 204-3 Plant Biology GEOG 210-3 Geomorphology

NREM 210-4 Integrated Resource Management

Upper-Division Requirement

300 Level

BIOL 302-3	Limnology
BIOL 307-3	Ichthyology and Herpetology
BIOL 308-3	Ornithology and Mammalogy
BIOL 315-3	Animal Diseases and Parasites
BIOL 325-3	Ecological Analyses
ENPL 305-3	Environmental Impact Assessment
or ENVS 32	26-3 Natural Resources, Environmental Issues and
	Public Engagement
or NREM 4	11-3 Environmental and Professional Ethics
GEOG 300-3	Geographic Information Systems
NREM 303-3	First Nations' Approaches to Resource
	Management
or NREM 3	06-3 Society, Policy and Administration

400 Level

1 00 i	LUVUI	
BIOL	402-3	Aquatic Plants
	or BIOL 404	1-3 Plant Ecology
BIOL	406-3	Fish Ecology
BIOL	410-3	Population and Community Ecology
BIOL	411-3	Conservation Biology
BIOL	412-3	Wildlife Ecology
BIOL	413-3	Wildlife Management
BIOL	414-3	Fisheries Management
NREN	√ 400-4	Natural Resources Planning
	or NREM 41	10-3 Watershed Management
	or NREM 33	33-3 Field Applications in Resource Management

Elective Requirement

Elective credit hours as necessary to ensure completion of a minimum of 123 credit hours.

BSc Honours – Wildlife and Fisheries

The Honours in Natural Resource Management (Wildlife and Fisheries) recognizes Undergraduate students who both excel at their studies and who complete the Undergraduate Thesis (normally NRES 430).

To enter the Honours program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum requirement will not guarantee admission into the Honours program, which will be at the discretion of the Ecosystem Science and Management Program. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours program.

Honours students are required to complete the degree requirements for the BSc in Natural Resources Management (Wildlife and Fisheries). Each student also must complete a 6-credit Undergraduate Thesis (as part of their elective credits) under the supervision of a faculty member.

Note: Students are responsible to find their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise honours students.

Minor in Earth Sciences

The Earth Sciences minor provides depth in areas of earth science that support natural resource management. Students are required to complete 18 credit hours (12 of which must be 300 or 400 level) chosen from the following lists, with at least one course from each of the first three groups. A maximum of two courses (6 credit hours) used to fulfill the requirements for a major, or another minor, may also be used to fulfill requirements for this minor. It is the student's responsibility to ensure that they have the required prerequisites.

Hydrology

ENGR	451-3	Groundwater Hydrology
ENSC	202-3	Introduction to Aquatic Systems
ENSC	454-3	Snow and Ice
GEOG	310-3	Hydrology
	or NREM 41	0-3 Watershed Management

Geomorphology

gy

Soil Science

FSTY 315-3	Forest Soil Management
FSTY 425-3	Soil Formation and Classification
FSTY 455-3	Biogeochemical Processes in Soil Systems

Other

ENSC 425-3	Climate Change and Global Warming
GEOG 413-3	Advanced GIS
GEOG 432-3	Remote Sensing
GEOG 457-3	Advanced Remote Sensing

Minor in Forest Recreation

The Minor in Forest Recreation provides natural resource management students and others with an opportunity to gain a foundation and expertise in the specialized aspects of forest recreation while pursuing another major. The minor requires students to take a total of 18 credit hours. The minor has three required courses basic to the field of Forest Recreation (nine credit hours) and a set of elective courses (minimum of nine credit hours).

Required Courses

ORTM 100-3	Foundations of Outdoor Recreation and Tourism
ORTM 200-3	Sustainable Recreation and Tourism
ORTM 300-3	Recreation and Tourism Impacts

Elective Courses

Nine credit hours from the following list with a minimum of 3 credit hours at the 400 level:

ORTM 202-3	Ecotourism and Adventure Tourism
ORTM 305-3	Protected Area Planning and Management
ORTM 306-3	Indigenous Tourism and Recreation
ORTM 400-3	Recreation and Tourism Ecology,
	Management and Design
ORTM 407-3	Recreation, Tourism and Communities
ORTM 409-3	Critical Approaches to Outdoor Recreation Activities
ORTM 412-3	Issues and Trends in Outdoor Recreation and Tourism
ORTM 498-(1-3) ORTM 499-(1-6)	Special Topics Independent Study

A maximum of two courses (6 credit hours) used to fulfill program requirements for a major (or another minor) may also be used to fulfill requirements for this minor.

Minor in Natural Resources Planning and Operations

The Natural Resources Planning and Operations minor is designed for students primarily interested in planning and operations (and their governing policies) related to the management of forested and non-forested lands. Students will learn about natural resource policy, forest-management planning and operations, environmental impacts of management practices, forest productivity and timber supply, and resource sustainability along with current computer-based management tools. It is strongly recommended that students taking this minor have a background in forest ecology and management.

The minor in Natural Resources Planning and Operations requires the completion of 19 credit hours, of which 12 credit hours must be at the upper-division (i.e., 300 or 400) level. Courses used to fulfill major requirements may not be applied toward the minor in Forest Planning and Operations. It is the student's responsibility to ensure that they have the required prerequisites.

Required Courses

NREM 210-4	Integrated Resource Management
FSTY 403-3	Timber Harvest Planning and Operations

Four of the following courses (with no more than two courses from any single program [e.g., ENPL]):

BIOL 325-3 BIOL 413-3	Ecological Analyses Wildlife Management
ECON 305-3	Environmental Economics and Environmental
	Policy
ECON 411-3	Cost-Benefit Analysis
ENPL 204-3	Principles and Practices of Planning
ENPL 303-3	Spatial Planning with Geographical
	Information Systems (GIS)

Natural Resources Management

ENPL 304-3	Mediation, Negotiation and Public Participation
ENPL 305-3	Environmental Impact Assessment
ENPL 410-3	Land Use Planning
ENPL 411-3	Planning Theory, Process and Implementation
ENSC 453-3	Environmental Resource Management and
	Decision Making
ENVS 326-3	Natural Resources, Environmental Issues and
	Public Engagement
FSTY 310-3	Forest Economics
FSTY 405-3	Forest Ecosystem Modelling
FSTY 407-3	Forest Products
FSTY 415-3	Forest Soils
GEOG 413-3	Advanced GIS
NREM 306-3	Society, Policy and Administration
NREM 410-3	Watershed Management
NREM 413-3	Agroforestry

Minor in Social Dimensions of Natural Resources Management

The Minor in Social Dimensions of Natural Resources Management prepares students to engage the public and First Nations in collaborative processes dealing with the range of values encompassed within the practice of natural resources management. Upon completion of the minor, students will be familiar with planning policy and practice as it applies to natural resources management, the range of values and social considerations that apply to a number of resource sectors, and tools for soliciting and involving multi-stakeholder interests.

The minor in Social Dimensions of Natural Resources Management requires the completion of a minimum of 24 credit hours of study. A maximum of two courses (6 credit hours) used to fulfill the requirements for a major, or another minor, may also be used to fulfill requirements for this minor. Students need to fulfill the prerequisite requirements for this minor.

Required Courses

ENPL 401-3 Environmental Law

One of:

ENPL 304-3 Mediation, Negotiation and Public

Participation

ENVS 326-3 Natural Resources, Environmental Issues, and

Public Engagement

One of:

POLS 332-3 Community Development

POLS 434-3 Resource Communities in Transition

An additional five of the following courses (no more than 2 courses in any single program [e.g., ENPL]):

BIOL 350-3	Ethnobotany
ENPL 104-3	Introduction to Planning
ENPL 304-3	Mediation, Negotiation and Public
	Participation
ENPL 319-3	Social Research Methods
ENPL 409-4	Advanced First Nations Community and
	Environmental Planning
ENVS 326-3	Natural Resources, Environmental Issues, and
	Public Engagement
ENVS 325-3	Global Environmental Change: Science and
	Policy
FNST 203-3	Introduction to Traditional Ecological
	Knowledge
FNST 304-3	Indigenous Environmental Philosophy
FSTY 440-3	Internship
GEOG 401-3	Tenure, Conflict and Resource Geography
GEOG 403-3	First Nations and Indigenous Geography
GEOG 424-3	Social Geography of Northern Communities
HIST 421-3	Topics in Environmental History
NREM 413-3	Agroforestry
ORTM 200-3	Sustainable Outdoor Recreation and Tourism
POLS 316-3	Municipal Government and Politics
POLS 332-3	Community Development
POLS 434-3	Resource Communities in Transition

Nature-Based Tourism Management (BA Program)

Kathy Lewis, Professor and Chair Philip Mullins, Associate Professor John Shultis, Associate Professor Pam Wright, Associate Professor Farhad Moghimehfar, Assistant Professor Pat Maher, Adjunct Professor Ian Picketts, Adjunct Professor

Website: www.unbc.ca/outdoor-recreation-tourism-management

Tourism has become the largest industry and employer in the world. One of the most important and fastest growing sectors in tourism is nature-based tourism, which comprises attractions, activities and experiences involving interaction with natural and cultural resources (e.g., ecotourism, adventure tourism, indigenous tourism). This degree examines the various components of the nature-based tourism system, giving emphasis to the entrepreneurial perspectives and sustainability issues in the industry. Reflecting the interdisciplinarity of the field, and related career directions, students select from the following Areas of Specialization: marketing and entrepreneurship, outdoor education and leadership, indigenous/cultural tourism, or environment and society.

Major in Nature-Based Tourism Management

Students must complete a minimum of 120 credit hours through (a) the common degree requirements, (b) the requirements of an Area of Specialization and (c) elective credit hours in any subject.

Common Degree Requirements

Lower-Division Requirement

100 Level

COMM 100-3 Introduction to Canadian Business

ECON 100-3 Microeconomics
ENPL 104-3 Introduction to Planning

GEOG 100-3 Environments and People: The Geography of

Natural Hazards

or GEOG 101-3 Human Geographies of Global Change or FNST 100-3 The Aboriginal Peoples of Canada or ENVS 101-3 Introduction to Environmental Citizenship

NREM 100-3* Field Skills

ORTM 100-3 Foundations of Outdoor Recreation and Tourism

*Note: Applications for exemption from NREM 100-3 must be made within the first year of study in any Natural Resource Management major.

200 Level

COMM 240-3 Introduction to Marketing

ECON 205-3 Statistics for Social and Management Sciences

or STAT 240-3 Basic Statistics

ORTM 200-3 Sustainable Recreation and Tourism
ORTM 202-3 Ecotourism and Adventure Tourism
ORTM 205-3 Outdoor Skills and Leadership

Upper-Division Requirement

300 Level

COMM 302-3 Entrepreneurship

FNST 304-3 Indigenous Environmental Philosophy or NREM 303-3 First Nations' Approaches to Resource

Management

HIST 360-3 An Introduction to Environmental History

ORTM 300-3 Recreation and Tourism Impacts

ORTM 306-3** Indigenous Tourism and Recreation

ORTM 310-3 Research Methods and Analysis

ORTM 332-3 Outdoor, Environmental and Experiential Education

ORTM 333-3 Field School

400 Level

ORTM 412-3 Issues and Trends in Recreation and Tourism

Nine credit hours from*:

ORTM 305-3	Protected Areas Planning and Management
ORTM 400-3	Conservation Area Design and Management
ORTM 403-3**	International Dimensions in Recreation and
	Tourism

ORTM 407-3** Recreation, Tourism and Communities
ORTM 408-3** The Psychology of Recreation and Tourism
ORTM 409-3** Critical Approaches to Outdoor Recreation
Activities

ORTM 414-3** Polar Tourism and Recreation

ORTM 433 (1-6) Field School II
ORTM 440 (2-6) Internship
ORTM 498 (1-3) Special Topics
ORTM 499 (1-6) Independent Study

NOLS 300-2 Environmental Ethics, Leave No Trace and

Leadership

NOLS 301-2 Group Leadership Techniques NOLS 302 (2-6) Wilderness Skills Practicum

NOLS 303-2 Risk Management, Assessment and Decision

Making

*Note: Up to 6 credit hours of NOLS prefixed courses can count towards this category. Any additional NOLS credit hours can be used as elective credit.

**Note: Student should note that some senior-level ORTM classes are offered in alternating years.

Area of Specialization

Students must choose one of the following Areas of Specialization. Courses used to fulfill common degree requiremetns above may not be used to satisfy an Area of Specialization requirement.

- 1. Marketing and Entrepreneurship
- 2. Outdoor Education and Leadership
- 3. Indigenous/Cultural Tourism
- 4. Environment and Society

Marketing and Entrepreneurship

COMM 210-3	Financial Accounting
COMM 342-3	Services Marketing

Two of:

COMM 340-3	Marketing Communication
COMM 343-3	Behavioural Marketing
COMM 346-3	Internet Marketing
COMM 441-3	International Marketing
COMM 442-3	Marketing Strategy

Two of:

COMM 230-3	Organizational Behaviour
COMM 300-3	Introduction to Business Law
COMM 303-3	Introduction to International Business
COMM 443-3	Marketing Research
ECON 305-3	Environmental Economics and Environmental
	Policy
GEOG 424-3	Social Geography of Northern Communities

Outdoor Education and Leadership

EDUC 101-3	Introduction to Education
EDUC 201-3	Education Theory and Practice
ENVS 101-3	Introduction to Environmental Citizenship
ORTM 408-3**	The Psychology of Recreation and Tourism
ORTM 409-3**	Critical Approaches to Outdoor Recreation Activities

One of:

ANTH 405-3	Landscapes, Place and Culture
BIOL 333-3	Field School
BIOL 350-3	Ethnobotany
ENVS 306-3	Human Ecology
ENVS 325-3	Global Environmental Change: Science and
	Policy
HIST 421-3	Topics in Environmental History
NREM 333-3	Field Applications in Resource Management

Indigenous/Cultural Tourism

FNST 1	100-3	The A	boriginal Peoples of Canada
(or HIST 215	-3	Global History of Indigenous People
FNST 2	203-3	Introd	uction to Traditional Ecological Knowledge

One of:

ENPL 208-3	First Nations Community and Environmental
	Planning

FNST 217-3 Contemporary Challenges Facing Aborignal

Communities

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	BIOL 350-3	Ethnobotany
	ENPL 409-3	Advanced First Nations Community and
		Environmental Planning
	GEOG 301-3	Cultural Geography
	GEOG 403-3	First Nations and Indigenous Geography
	HIST 390-3	Aboriginal People in Canada
	NORS 321-3	Peoples and Cultures of the Circumpolar
		World
	POLS 332-3	Community Development
_		

One of:

01.	
ORTM 403-3**	International Dimensions in Recreation and
	Tourism
ORTM 407-3**	Recreation, Tourism and Communities
ORTM 414-3**	Polar Tourism and Recreation

Environment and Society

ENVS 101-3 ENPL 205-3 or ENPL 208	Envir	duction to Environmental Citizenship onment and Society First Nations Community and Environmental Planning
One of: GEOG 204- GEOG 205- GEOG 300-	3	Introduction to GIS for the Social Sciences Cartography and Geomatics Geographic Information Systems
One of: ENPL 304-3	3	Mediation, Negotiation and Public Participation

ANTH 405-3

ENVS 326-3	Natural Resources, Environmental Issues and
	Public Engagement

Landscapes, Place and Culture

NREM 306-3 Society, Policy and Administration

Two of:

ENPL 301-3	Sustainable Communities: Structure and
	Sociology
ENVS 306-3	Human Ecology
ENVS 309-3	Gender and Environmental Studies
GEOG 305-3	Political Ecology
GEOG 420-3	Geographies of Environmental Justice
GEOG 424-3	Social Geography of Northern Communities
HIST 421-3	Topics in Environmental History

Course Prerequisites

Students should review all proposed course selections in advance to make sure course prerequisites are taken where needed.

Elective

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

BA Honours – Nature-Based Tourism Management

The Honours in Nature-Based Tourism Management offers students a higher level of education and substantial research experience for proceeding to postgraduate studies.

To enter the Honours Program, students must have completed 60 credit hours and obtained a minimum Cumulative GPA of 3.33. Attaining the minimum requirement will not guarantee entry into the Honours Program, which will be at the discretion of the Outdoor Recreation and Tourism Management Program. Maintenance of a Cumulative GPA of 3.33 is required to remain in the Honours Program.

Honours students must complete the degree requirements for the BA in Nature-Based Tourism Management. In additional, each student must also complete an additional 6 credit hours in the form of an undergraduate thesis (NRES 430-6) under the supervision of a faculty member.

Note: Students are responsible to find their own undergraduate thesis research supervisor. Faculty members are under no obligation to supervise Honours students.

Minor in Outdoor Recreation and Tourism Management

The minor in Outdoor Recreation and Tourism Management is designed to afford students an opportunity to gain foundational knowledge in tourism and recreation while pursuing another major. The minor requires students to take a total of 18 credit hours. The minor has three required courses basic to the field of Outdoor Recreation and Tourism Management (9 credit hours) and a set of elective courses (minimum of 9 credit hours). A maximum of two courses (6 credit hours) used to fulfill program requirements for a major (or another minor) may also be used to fulfill requirements for this minor.

Required Courses

ORTM 100-3 Foundations of Outdoor Recreation and Tourism

One of:

ORTM 200-3 Sustainable Recreation and Tourism
ORTM 202-3 Ecotourism and Adventure Tourism
ORTM 205-3 Outdoor Skills and Leadership

ORTM 300-3 Recreation and Tourism Impacts

Elective Courses

Nine credit hours from the following list with a minimum of 6 credit hours at the 400 level:

ORTM 305-3 ORTM 306-3	Protected Area Planning and Management Indigenous Tourism and Recreation
ORTM 332-3	Outdoor, Environmental, and Experiential Education
ORTM 403-3	International Dimensions in Recreation and Tourism
ORTM 407-3	Recreation, Tourism and Communities
ORTM 408-3	The Psychology of Recreation and Tourism
ORTM 409-3	Critical Approaches to Outdoor Recreation Activities
ORTM 412-3	Issues and Trends in Recreation and Tourism
ORTM 414-3	Polar Tourism and Recreation

Northern Studies (BA Program)

Gary Wilson, Professor, Political Science, and Northern Studies Coordinator

Website: www.unbc.ca/northern-studies

Major in Northern Studies

Northern Studies is an interdisciplinary field of particular importance to the University of Northern British Columbia, and of growing relevance globally. Circumpolar environmental processes are becoming recognized as key indicators of global change; circumpolar indigenous peoples are gaining a greater voice both nationally and internationally; circumpolar political arrangements are illustrating new forms of regional governance. For these and other reasons, a better understanding of northern conditions and issues is needed.

Students are required to complete 54 credit hours of coursework consisting of seven core courses (21 credit hours) one course (3 credit hours) in Methodology; at least five courses (15 credit hours) from the "Environment and Health" list of courses, and at least five courses (15 credit hours) from the "Culture and People" list of courses.

The remaining electives and prerequisites are open to design by the student, but 30 credit hours must be at the Upper-division level.

Note: Completion of a Bachelor of Arts with a major in Northern Studies graduation requires a minimum of 120 credit hours.

Block transfer of credit up to 60 credit hours towards the Northern Studies BA at UNBC may be given to students from Yukon College who have completed one of the following two year Northern Studies programs at Yukon College: Diploma of Northern Studies, General Studies; Diploma of Northern Studies, Native Studies; Diploma of Northern Studies, Outdoor and Environmental Studies.

Program Requirements

Core Courses

NORS 101-3 NORS 311-3	Introduction to the Circumpolar North Lands and Environments of the Circumpolar North 1
NORS 312-3	Lands and Environments of the Circumpolar North 2
NORS 321-3	Peoples and Cultures of the Circumpolar World 1
NORS 322-3	Peoples and Cultures of the Circumpolar World 2
NORS 331-3	Contemporary Issues in the Circumpolar North 1
NORS 332-3	Contemporary Issues in the Circumpolar North 2 $$

Note: These courses may be available in face-to-face format, cross-listed with other UNBC courses, or as web-based courses offered in conjunction with the University of the Arctic.

Environment and Health

(at least 15 credit hours)

ANTH 312-3	Human Adaptability
ANTH 320-3	Biology of Circumpolar Peoples
ANTH 409-3	Topics in British Columbia Archaeology
BIOL 304-3	Plants Society and the Environment
BIOL 350-3	Ethnobotany
BIOL 404-3	Plant Ecology
ECON 305-3	Environmental Economics and Environmental
	Policy
ENPL 305-3	Environmental Impact Assessment
ENSC 454-3	Snow and Ice
ENVS 326-3	Natural Resources, Environmental Issues and
	Public Engagement
FNST 249-3	Aboriginal Resource Planning
FNST 302-3	First Nations Health and Healing
FNST 304-3	Indigenous Environmental Philosophy
FNST 316-3	Aboriginal Health and Chronic Illness
FSTY 425-3	Soil Formation and Classification
GEOG 308-3	Environments of Health and Care
GEOG 312-3	Geomorphology of Cold Regions
GEOG 403-3	First Nations and Indigenous Geography
GEOG 424-3	Social Geography of Northern Communities
HHSC 440-6	Special Topics in Health Sciences
HHSC 473-3	Health Promotion
INTS 225-3	Global Environmental Challenge: Sustainability
NORS 498-3	Special Topics in Northern Studies
NORS 499-(3-6)	Independent Research/Directed Reading in
	Northern Studies
NREM 303-3	First Nations Approaches to Resource
	Management

Culture and People

(at least 15 credit hours)

ANTH 201-3 ANTH 206-3 ANTH 335-3 ANTH 407-3 ANTH 409-3 ANTH 421-(3-6)	Medical Anthropology Ethnography in Northern British Columbia Archaeological Heritage Management Topics in British Columbia Ethnography Topics in British Columbia Archaeology Ethnographic Field Methods
ANTH 422-(3-6) ANTH 451-3	Ethnographic Research Project Traditional Use Studies
ECON 307-3	Northern BC in the Global Economy
ENGL 320-3	First Nations Literature
ENGL 420-3	Special Topics in First Nations Literature
ENGL 431-3	Northern BC Literature
FNST 217-3	Contemporary Challenges Facing Aboriginal
	Communities
FNST 350-3	Law and Indigenous Peoples
FNST 306-3	Indigenous Women: Perspectives
GEOG 403-3	First Nations and Indigenous Geography
GEOG 424-3	Social Geography of Northern Communities
HIST 390-3	Aboriginal People in Canada
NORS 498-3	Special Topics in Northern Studies
NORS 499-3	Independent Research/Directed Reading in Northern Studies
ORTM 306-3	Indigenous Tourism and Recreation

ORTM 407-3	Recreation, Tourism and Communities
ORTM 414-3	Polar Tourism and Recreation
POLS 316-3	Community Government and Politics
POLS 332-3	Community Development
POLS 412-3	Comparative Aboriginal State Relations
POLS 414-3	Comparative Federalism
POLS 415-3	Comparative Northern Development
POLS 434-3	Resource Communities in Transition

Methodology

Three credit hours from one of the following:

ANTH 300-3	Methods in Social Anthropology
BIOL 325-3	Ecological Analyses
ECON 205-3	Statistics for the Social and Management Sciences
ENPL 319-3	Social Research Methods
FNST 200-3	Methods and Perspectives in First Nations Studies
FNST 300-3	Research Methods in First Nations Studies
GEOG 204-3	Introduction to GIS for the Social Sciences
GEOG 205-3	Cartography and Geomatics
GEOG 333-3	Geography Field School
ORTM 310-3	Research Methods and Analysis
POLS 290-3	Research and Writing for Political Science

Note: Students are encouraged to participate in an optional semester at another university in the circumpolar north, through exchange agreements between UNBC and other circumpolar universities. This should be done in consultation with the NORS Coordinator.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours, including any additional credits to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in Northern Studies

Northern Studies is an interdisciplinary field of particular importance to the University of Northern British Columbia, and of growing relevance globally. Many circumpolar issues are gaining importance, and there are important lessons that can be exchanged between circumpolar regions and other areas of the globe. Northern Studies can be an interesting and useful complement to students' other areas of study.

A minor consists of eight courses (24 credit hours). Students must take seven required core courses (21 credit hours). Students must also take one methodology course (3 credit hours) from the list below.

Courses used to fulfill program requirements for a major or another minor may not be used to fulfill requirements for this minor.

Required Core Courses

NORS 101-3 NORS 311-3	Introduction to the Circumpolar North Lands and Environments of the Circumpolar North 1
NORS 312-3	Lands and Environments of the Circumpolar North 2
NORS 321-3	Peoples and Cultures of the Circumpolar World 1
NORS 322-3	Peoples and Cultures of the Circumpolar World 2
NORS 331-3	Contemporary Issues in the Circumpolar North 1
NORS 332-3	Contemporary Issues in the Circumpolar North 2

Note: These courses may be available in face-to-face format, cross-listed with other UNBC courses, or as web-based courses offered in conjunction with the University of the Arctic.

Methodology

(Choose one from the list)

ANTH 300-3 BIOL 325-3 ECON 205-3	Methods in Social Anthropology Ecological Analyses Statistics for the Social and Management Sciences
ENPL 319-3	Social Research Methods
FNST 200-3	Methods and Perspectives in First Nations
	Studies
FNST 300-3	Research Methods in First Nations Studies
GEOG 204-3	Introduction to GIS for the Social Sciences
GEOG 205-3	Cartography and Geomatics
GEOG 333-3	Geography Field School
ORTM 310-3	Research Methods and Analysis
POLS 290-3	Research and Writing for Political Science

School of Nursing (BScN Program)

- Northern Collaborative Baccalaureate Nursing Program
- Post-Diploma Baccalaureate Nursing Program
- Rural Nursing Certificate Program

Sylvia Barton, Associate Professor and Chair

Martha MacLeod, Professor Davina Banner-Lukaris, Associate Professor Zimmer Lela Associate Professor Caroline Sanders, Associate Professor Shannon Freeman, Assistant Professor Amy Klepetar, Assistant Professor Catharine Schiller, Assistant Professor Linda Van Pelt, Assistant Professor Erin Wilson, Assistant Professor Penny Anguish, Adjunct Professor Jennifer Beaveridge, Adjunct Professor Helen Bourque, Adjunct Professor Anne Chisholm, Adjunct Professor Gerrit Clements, Adjunct Professor Tracey Day, Adjunct Professor Heidi Dunbar, Adjunct Professor Celia Evanson, Adjunct Professor Rosemary Graham, Adjunct Professor Monica Gregory, Adjunct Professor Kelly Gunn, Adjunct Professor Lauren Irving, Adjunct Professor Connie-Marie Lapadat, Adjunct Professor Rose Perrin, Adjunct Professor Colleen Regehr, Adjunct Professor Shanda Rojas, Adjunct Professor Ann Syme, Adjunct Professor Denise Tarlier, Adjunct Professor Cathy Ulrich, Adjunct Professor Clara Antoniazzi, Senior Lab Instructor and Nursing Teaching Associate Heidi Dodenberg, Senior Lab Instructor Ngoc Huynh, Senior Lab Instructor Gwen Keeler, Senior Lab Instructor

Website: www.unbc.ca/nursing

Statement of Nursing

Nursing is a professional practice discipline which offers a valuable service to the public by working with individuals, families, groups, and communities, to develop and implement strategies to meet health care needs. Caring is a central and dominant feature of nursing.

Nursing:

- considers the physical, psychological, social, environmental, and spiritual domains of clients;
- b. requires cultural sensitivity; and,
- c. collaborates with clients, other health care providers, and the community.

Nursing is based on knowledge and skills developed in its own and related disciplines. Nursing knowledge is developed through research and other methods.

Nursing advocates for a health care system that:

- a. emphasizes health promotion, and illness prevention,
- is based on practical, affordable, manageable, and culturally acceptable care and technology, and
- c. is available for all clients in a universal, equitable manner.

Statement of Nursing Education

Nursing education responds to societal concerns by developing a curriculum that is relevant and considers future trends in health care. Nursing education strives to provide an environment that is challenging and supportive, where all students learn the practice of nursing through the application and evaluation of knowledge, the practise of skills, and the internalization of caring and professional attitudes. A dynamic and positive relationship occurs between health care services and education through the sharing of knowledge, skills, and research.

Undergraduate Programs of Study

UNBC offers the following programs:

- Northern Collaborative Baccalaureate Nursing Program
 (NCBNP) is offered collaboratively between UNBC, the College
 of New Caledonia (CNC), and Northwest Community College
 (NWCC), providing entry into the nursing profession. The
 integrated program of studies leads to a Bachelor of Science
 in Nursing (BScN), awarded by UNBC. Graduates are eligible
 to write the National Council Licensure Examination (NCLEXRN) and to apply for registration with the College of Registered
 Nurses of British Columbia (CRNBC) after passing the exam.
- Post-Diploma Baccalaureate Nursing Program for registered nurses is offered by UNBC. Acknowledging the previous learning of post-RNs, the program is organized to expand and update knowledge and skills for nursing practice. Students have the opportunity to focus in one area of practice. Successful completion of the program leads to a BScN.

Aims of the BScN Program

The goal of the BScN program is to improve access to and successful completion of nursing education for residents of the north. The aim of the nursing program is to prepare professional nurses who will:

- practice with cultural sensitivity
- practice with awareness of particular health needs of northern populations
- practice assessment and promotion of holistic health with individuals, families, groups, and communities
- participate in activities that reflect the appraisal of population health needs and implement and evaluate the appropriate interventions to meet those needs
- make nursing judgments that reflect application of current nursing research and research from related disciplines

- practice in a broad range of settings with an emphasis on northern communities
- influence health services to bring about policy development that meets the health needs of northern populations
- practice effectively within collaborative interdisciplinary and intersectorial health care teams
- demonstrate critical thinking skills and effective clinical decision making
- demonstrate skills of a self-directed learner
- meet professional practice requirements as identified in the CRNBC Professional Standards for Registered Nurses and Nurse Practitioners
- NCBNP students will meet professional practice requirements as identified in the current CRNBC Competencies in Context of Entry-level Registered Nurse Practice in British Columbia

General Requirements

Nursing courses are normally restricted to students admitted into the BScN program, unless otherwise specified in a course description. Not all courses in the Calendar are offered every semester or academic year. Admission to the BScN program does not guarantee registration in any specific course; early registration is advised.

The admission criteria and general requirements set out in the Admissions section of this Calendar are applicable to this section.

Standards of Professional Conduct

In addition to fulfilling all University and Program expectations, all students are expected to abide by professional standards as set forth in the current CRNBC *Professional Standards for Registered Nurses and Nurse Practitioners* and the Canadian Nurses Association (CNA) Code of Ethics for Registered Nurses. Violation of professional standards may result in suspension or dismissal from the program or the educational institution.

College of Registered Nurses of British Columbia Requisite Skills and Abilities

All students who apply to the Northern Collaborative Baccalaureate Nursing Program must demonstrate the capacity to meet College of Registered Nurses of British Columbia's (CRNBC) Requisite Skills and Abilities. Certain basic skills and abilities are required for a student to attain the Competencies in the Context of Entry-Level Registered Nurse Practice in British Columbia. These Requisite Skills and Abilities can be found on the CRNBC website.

Clinical Practica Scheduling and Expectations

Clinical practica may be configured and offered outside the existing timetable structure and sessional dates, such as a four or six week block. The students in the NCBNP must complete a consolidating nursing practicum following both their fourth and sixth semesters of study in the program.

Attendance in each clinical course is mandatory. Students who do not complete their total required practicum experience hours will be at

risk of failure. Any time a student is unable to attend practicum due to unforeseen circumstances, the student must contact his/her clinical instructor and the clinical area with as much notice as possible. The opportunity to make up missed clinical time is not guaranteed and may only be granted for extreme extenuating circumstances.

Program Costs

Costs associated with study in the BScN programs are the responsibility of the individual student, including transportation costs and any expenses involved in academic studies, lab, and clinical practica. Students may be required to complete clinical experiences at sites other than Prince George, Quesnel, or Terrace. Provision for all travel, accommodation, and living expenses associated with required clinical practice is the sole responsibility of the student.

Academic Performance

Students must adhere to all policies and regulations of the institution(s) where they are registered for courses. This requirement includes, but is not limited to, matters related to academic appeals and academic dishonesty. Progression through the program is governed by guidelines on academic standing and continuance. Probation guidelines are governed by UNBC.

Students must obtain the minimum passing grade for all required Nursing and Health Sciences (NURS, HHSC or equivalent) courses as defined under "Qualification for Degree."

Students are required to withdraw from their respective Nursing programs if they have two instances of not meeting the minimum passing grade requirement either in the same Year or in two consecutive Years, in any combination of the following:

- NURS theory and/or practice courses
- required HHSC courses
- equivalents of the above

A 'Year' is comprised of all the mandatory NURS and HHSC (or equivalent) courses in a given Level (e.g. Year 1 includes all 100-level courses listed under the Lower-Division requirements in the Calendar) regardless of how long it takes the student to complete the courses. Students who are required to withdraw in Year 1 or Year 2 may reapply to the NCBNP after a minimum of 1 year. Those required to withdraw in Year 3 or 4 (including RNCP and Post-Diploma students) may reapply after 3 years. For NCBNP students, assessments are performed on an individual basis by a joint committee of the UNBC School of Nursing, NWCC, and CNC with no guarantee of readmission. Students who are readmitted must begin the Program at Year 1 and repeat all NURS and HHSC (or equivalent) courses. Any reapplications to the RNCP and Post-Diploma are assessed by the UNBC School of Nursing.

Students may be removed from a clinical setting due to "unsafe or unprofessional" performance/conduct, and may receive a grade of F in the clinical component of the course. When a student receives a grade of F for the clinical component of a course, the overall course grade will be computed on the basis of the grade achieved in all other components of the course, to a maximum grade of C-.

Nursing

Student who withdraw from more than one NURS and/or HHSC course (or equivalent) in an academic year will be required to meet with the Program Coordinator at the institution they are currently attending to discuss whether the student is suited to continue in the program. Consultation must occur with and permission be granted by the Program Coordinator before the student will be allowed to register in subsequent courses.

Misconduct

Any conduct that violates the ethical or legal standards of the institution at which the student is currently registered, particularly those related to academic dishonesty, is a serious offense. Academic misconduct and/or professional misconduct may result in the student being required to withdraw from the respective Nursing program and possibly the University. Satisfactory academic performance is not the sole criterion for progression or graduation. The School of Nursing and the NCBNP institutional partners reserve the right to require a student to withdraw from the student's respective program if the student is considered to be unsuited to proceed with the study or practice of nursing.

Qualification for Degree

It is the responsibility of the student to ensure that his/her degree or certificate requirements are met. Graduation requirements are found in the Regulations and Policies section of this Calendar. To fulfill the requirements of graduation, the student must:

- attain a minimum Cumulative GPA of 2.33 (C+) on all courses used for credit towards the degree or certificate
- attain a minimum passing grade of (P) in NURS 220-5, NURS 329-1 and NURS 330-4, as applicable to the specific program
- obtain a minimum passing grade of 2.00 (C) in the following courses, or their equivalents, as applicable to the specific program. Note: Students enrolling in any required course must have completed all prerequisites with a grade of (C) or better, or if NURS 220-5, NURS 329-1 or NURS 330-4 is the prerequisite, a passing grade of (P) is required:
 - · all NURS courses, including NURS electives
 - · all mandatory HHSC courses
 - · ANTH 213-3
 - · STAT 240-3
 - · POLS 403-3
- complete all requirements for the appropriate program as follows:
 - NCBNP BScN within eight years, starting with the first semester of registration in a NURS course in the NCBNP at UNBC or one of its collaborative partner institutions
 - Post-Diploma BScN within eight years, starting with the first semester of registration in a NURS course in the Post-Diploma BScN at UNBC
 - Certificate program within six years, starting with the first semester of registration in a NURS course in the Certificate program at UNBC.

Letter of Permission

Once admitted to the Nursing Program, students who want to take course work at other institutions for transfer credit towards the degree

require a Letter of Permission prior to registration in the course. A student who has committed an academic offense may be denied a Letter of Permission for subsequent coursework. Students who complete courses without having first obtained a Letter of Permission risk not having those courses accepted for transfer credit. Students should contact the Nursing Advisor at the institution they are currently attending for further information. (Refer to Academic Regulation 19 in this Calendar).

Course Challenge

Course challenge is available for up to six credits of the required nursing courses in the Post-Diploma Baccalaureate Nursing program. Up to six credits of course challenge may be applied towards the degree if less than nine credit hours of nursing courses have been transferred in. Only three credits of course challenge can apply towards the degree if the maximum of nine credit hours in nursing have been transferred in.

Part-time Studies

With prior approval by the Nursing Advisor at the institution the student is applying to or currently attending, and subject to course availability, undergraduate Nursing programs may be taken on a part-time basis; however, students may be required to enroll full-time during a portion of their program.

Leave of Absence

Students wanting to take a Leave of Absence must apply, in writing, to the Nursing Advisor at the institution that the student is currently attending. Upon approval, students are eligible for up to a one-year Leave of Absence. Students who do not apply for a Leave of Absence will be considered to be out-of-sequence and will lose their priority for registration.

Time Lapse Between Clinical Practica

Students who are out of clinical practice in a Nursing education program for more than 18 months will be reassessed to determine what clinical practice remediation is needed. This may include repeating clinical courses taken previously, regardless of whether the student successfully completed the course.

Students reapplying to the program after a leave of over 18 months will need to be re-evaluated as to the level at which they will need to re-enter the program.

Withdrawal from the Nursing Program

Students who voluntarily withdraw from the Nursing program must notify, in writing, the Nursing Advisor at the institution that the student is currently attending. Where students fail to notify the Nursing Advisor, the Nursing Advisor will deem a student to have voluntarily withdrawn from the Nursing program where the student has not registered in Nursing courses in any of the last three semesters.

Northern Collaborative Baccalaureate Nursing Program

The Northern Collaborative Baccalaureate Nursing Program (NCBNP) requires students to take at least 95 credit hours of Nursing courses. The minimum requirement for completion of a Bachelor of Science in Nursing is 136 credit hours.

Transfer Credit

Transfer credit and/or advanced standing may be awarded for course work completed at other recognized institutions. All transfer credit for course work taken prior to admission to the BScN program will be evaluated at the request of the student, and applied at the time of initial registration in the program.

The total transfer credit awarded on the basis of acceptable course work completed at non-collaborative partner institutions may not exceed 60 credit hours. Nursing courses must have been completed within five years prior to admission to be eligible for transfer credit into the nursing program.

Criminal Records Search

NCBNP students are required to undergo criminal records searches prior to being admitted, as well as upon entry to third year. (Refer to Academic Regulation 20 in this Calendar.)

Immunization and CPR Certification

All students accepted into the NCBNP are sent documentation and information regarding immunization policies. Once accepted into the Program, all students must submit the following:

- A record of immunization status and any annual vaccination requirements, such as Influenza, based on release date of vaccine.
 - A completed immunization form must be submitted to the institution the student is currently attending prior to Sept 30 in the first year of attendance. Students entering the Program in Year 2 or above must submit the completed immunization form before the first week of classes in September. Failure to do so may result in the student not being allowed to practice in the clinical setting.
- Documentation of CPR certification, level C, which must be successfully maintained throughout the program. Proof of CPR certification (and recertification, as needed) must be submitted prior to commencement of classes.
- CPR must be recertified every two years regardless of expiry date on the card.

Admission Requirements

Self-identified Aboriginal applicants who meet or exceed the minimum requirements for admission to the program will be given priority for up to twenty percent (20%) of the first-year seats for the Northern Collaborative Baccalaureate Nursing Program (NCBNP).

Students must apply at the collaborative colleges: The College of New Caledonia in Prince George or Quesnel, or Northwest Community College in Terrace. Admission is based on academic qualifications and available space. Priority admission will be given to students who meet admission criteria (see Admissions Section in this calendar) and apply by the deadline of March 31. Applications received after the deadline may be reviewed based on available space in the program.

Applicants must:

- meet UNBC admission requirements, and
- have completed the equivalent of the following BC secondary school courses with a minimum C+ (67%) in each course:
 - one of Foundations of Mathematics 11, Pre-calculus 11, or Principles of Math 11
 - · Chemistry 11
 - · English 12
- have completed the equivalent of Biology 12 with a minimum B (73%) within 5 years prior to the semester of admission to the NCBNP

Applicants whose first language is not English, regardless of citizenship or country of origin, must submit evidence of English language proficiency prior to admission. For the NCBNP, the following are required for admission:

- fulfillment of the BC Secondary School English 12 requirements (67%), or equivalent, and
- either an IELTS (International English Language Testing System), or a CELBAN (Canadian English Language Assessment for Nurses) with current, valid results and scores as set by the College of Registered Nurses of British Columbia (CRNBC) for the year of admission.

Admission Requirements: Licensed Practical Nurse (LPN) Access

Licensed Practical Nurses (LPNs) who are applying for admission to the NCBNP must:

- meet all Northern Collaborative Baccalaureate Nursing Program admission requirements
- be a graduate of a Practical Nursing program recognized by the College of Licensed Practical Nurses of BC (CLPNBC) since 1994
- have current practising or be eligible for practising registration with the CLPNBC
- have practised as a LPN for a minimum of 1700 hours in a
 patient care setting during the last 4 years, OR graduated from
 a BC Practical Nursing Program within the year of application.
 Proof of worked hours must be submitted with application and
 can be obtained from employers

LPN applicants will be assessed on an individual basis and may be eligible for up to a maximum of 27 transfer credit hours of Nursing courses.

Applicants who have completed a BC Practical Nursing Certificate prior to 1994, or have completed a certificate or diploma from a program outside of BC, may not be exempt from any of the first or second year nursing courses.

All successful LPN applicants must meet individually with the Nursing Advisor at the institution to which they are applying in order to be referred to a Nursing Faculty member for transfer credit and proficiency assessment.

Program Requirements

Lower-Division Requirement

100 Level

ANTH	213-3	Peopl	es and Cultures (or equivalent)
HHSC	110-3	Basic	Microbiology (at UNBC)
	or BIO 105-	3	Basic Microbiology (at CNC)
	or BIOL 133	-3	Applied Microbiology (at NWCC)
HHSC	111-4	Anato	omy and Physiology I (at UNBC)
	or BIO 111-	3	Anatomy and Physiology I (at CNC)
	or BIOL 131	-3	Human Anatomy and Physiology I (at NWCC)
HHSC	112-4	Anato	omy and Physiology II (at UNBC)
	or BIO 112-	3	Anatomy and Physiology II (at CNC)
	or BIOL 132	-3	Human Anatomy and Physiology II (at NWCC)
NURS	101-3	The A	art and Science of Nursing
NURS	102-3	Comr	nunication Theory and Practice
PSYC	101-3	Psych	nology as a Science (or equivalent)

200 Level

LUU LUVUI	
STAT 240-3 Bas	ic Statistics (at UNBC)
or ECON 205-3	Statistics for Social and Management
	Sciences (at UNBC)
or MATH 104-3	Introduction to Statistics (at CNC)
or MATH 157-3	Business Statistics (at CNC)
or PSYC 201-3	Statistics for the Social Sciences (at CNC)
or MATH 131-3	Introduction to Statistics (at NWCC)
or MATH 251-3	Statistics (at NWCC)

Note: UNBC STAT 240-3, CNC MATH 104-3, or NWCC MATH 131-3 are recommended for the Statistics requirement.

NURS 201-4	Introduction to Health Assessment
NURS 202-3	Pathophysiological Concepts (at CNC)
or BIOL 22	0-3 Pathophysiology (at NWCC)
NURS 203-3	Health Promotion in Families
NURS 204-3	Healing Modalities (at CNC)
or BIOL 22	1-3 Pharmacology for Nurses (at NWCC)
NURS 205-3	Introduction to First Nations Health
NURS 206-3	Basic Nutrition (at CNC)
or BIOL 22:	2-3 Human Nutrition (at NWCC)
NURS 215-8	Nursing Care of the Adult
NURS 220-5	Extended Clinical Practicum I

Upper-Division Requirement

Prior to each academic year, students will be advised which courses are being offered at each campus. Courses may be offered face-to-face, online, or using a combination of delivery methods. Students must expect to complete at least one practicum rotation at a site other than Prince George, Quesnel, or Terrace.

300 Level	
NURS 304-3	Introduction to Nursing Knowledge
NURS 306-3	Introduction to Epidemiology
NURS 308-3	Ethics and Law in Nursing
NURS 317-5.5	Nursing Theory and Practice: Maternity
NURS 318-5.5	Nursing Theory and Practice: Pediatrics
NURS 323-5.5	Nursing Theory and Practice: Older Adult
NURS 326-5.5	Nursing Theory and Practice: Mental Health
NURS 329-1	Third-Year Objective Structured Clinical Examination
NURS 330-4	Extended Clinical Practicum II
400 Level	
NURS 403-3	Introduction to Nursing Research
NURS 408-3	Nursing Leadership
NURS 418-7	Introduction to Community Health and Nursing
POLS 403-3	Social and Health Policy and Administration
At least one of the	e following areas of clinical focus:
NURS 420-	8 Community Health Nursing
NURS 422-	8 First Nations Health and Nursing
NURS 426-	8 Acute Care Nursing
NURS 432-	8 Mental Health Nursing

Elective Requirement

NURS 435-8

NURS 454-8

NURS 455-8

NURS 461-8

NURS 497-8

Eighteen credit hours chosen to fulfill the requirements below, and to ensure completion of a minimum of 136 credit hours. A course may not be used to satisfy the requirements in more than one category. Students are strongly advised to complete elective course work prior to fourth year.

Pediatric Nursing

Rural Health and Nursing

Specialty Focus in Nursing

Foundations in Emergency and Trauma

Perinatal Care

Nursina

- 3 credit hours in First Nations Studies at any level, or HIST 215-3 Global History of Indigenous People, or equivalent
- 3 credit hours in Humanities at any level, or ENGL 170-3, or equivalent
- 3 additional credit hours in Nursing at the 200 level or above, or 3 credit hours at the 200 level or above in a subject related to Nursing (with permission of Program)
- At least 3 credit hours at the 200 level or above in any subject
- At least 3 credit hours at the 300 level or above in any subject
- 3 credit hours at any level in any subject

Post-Diploma Baccalaureate Nursing Program

The minimum requirement for completion of the Post-Diploma Baccalaureate Nursing Program BScN is 45 credit hours with 24 of these required credit hours in nursing. Admission occurs in September and January. The fulfillment of admission requirements does not guarantee admission to the post-diploma program and is based on available space.

Transfer Credit

Students who have completed a Registered Nurse Diploma at a recognized post-secondary institution may be eligible to receive up to 60 credit hours towards the Post-Diploma Baccalaureate Nursing Program.

In additional to block credit awarded for the diploma, a maximum of 15 credit hours from other recognized institutions may be transferred into the Post-Diploma Baccalaureate Nursing Program. Nursing courses, or their equivalents, must have been completed within five years prior to the semester of admission to be eligible for transfer credit into the Nursing Program.

Admission Requirements

Applicants must:

- meet UNBC admission requirements
- submit official transcript(s) from diploma program
- provide evidence of active and continuing registration as a nurse in British Columbia. Annual documentation of current, practising CRNBC licensure is required while enrolled in the program.

Once accepted to the Post-Diploma Baccalaureate Nursing Program, all students must complete and submit the specified immunization forms prior to commencing a course with a clinical component. Failure to do so may result in the student not being allowed to practice in the clinical setting.

In order to meet the graduation requirements for the BScN, the post-RN student must successfully complete the following courses:

Program Requirements

Lower-Division Requirement

200 Level

STAT 240-3 Basic Statistics, or equivalent

Upper-Division Requirement

300 I	Level
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NURS 304-3	Introduction to Nursing Knowledge
NURS 306-3	Introduction to Epidemiology

400 Level

NURS 403-3 Introduction to Nursing Research

NURS 408-3 Nursing Leadership

NURS 415-3 Introduction to Community Health and Nursing
*or NURS 418-7 Introduction to Community Health and
Nursing

NURS 451-3 Health Assessment and RN First Call
POLS 403-3 Social and Health Policy and Administration

*Students wishing to take NURS 420-6 or NURS 422-6 as their Clinical Concentration should take NURS 418-7. This course substitutes for NURS 415-3 and 4 credits towards the list below.

A minimum of 9 credit hours selected from the following:

ANTH 201-3	Medical Anthropology
ANTH 213-3	Peoples and Cultures
COMM 230-3	Organizational Behaviour
NURS 301-3	Advanced Pathophysiology
NURS 303-3	Nutrition
or HHSC 31	1-3 Nutrition
NURS 402-3	Health Promotion
or HHSC 47	'3-3 Health Promotion
NURS 409-3	Pharmacotherapeutics for Nurses
NURS 411-3	Medical Diagnostics for Nurses
NURS 412-3	Women and Health
NURS 452-6	Chronic Disease Management, Palliative Care
	and Wound Care
NURS 453-3	Nursing Practice with Older Persons
NURS 454-6	Perinatal Care
NURS 455-6	Foundations in Emergency and Trauma
	Nursing
NURS 456-3	Mental Health and Addictions
NURS 457-3	Living and Working in a Rural Community
NURS 458-6	Remote Nursing Certified Practice

At least one of the following areas of clinical concentration:

NURS 422-6	First Nations Health and Nursing
NURS 426-6	Acute Care Nursing
NURS 428-6	Nursing Management
NURS 430-6	Community Continuing Care Nursing
NURS 432-6	Mental Health Nursing
NURS 435-6	Pediatric Nursing
NURS 454-6	Perinatal Care
NURS 455-6	Foundations in Emergency and Trauma
	Nursing
NURS 497-6	Specialty Focus in Nursing

Community Health Nursing

Elective Requirement

NURS 420-6

6 credit hours chosen to ensure completion of a minimum of 45 credit hours and fulfillment of the following requirements:

- 3 credit hours of First Nations Studies at any level.
- 3 additional credit hours at the 200 level or above, or 3 credit hours at the 200 level or above in a subject related to Nursing (with permission of the Program).

Rural Nursing Certificate Program

The Rural Nursing Certificate Program provides the opportunity for

Nursing

Registered Nurses to pursue a concentrated program of courses in Rural Nursing. The Certificate provides students with some of the essential knowledge and clinical skills needed to provide nursing care in rural practice.

The Certificate Program has been developed as an academic program that is practice-driven, and is supported by health authorities across British Columbia. It is based upon the principles of primary health care, and provides an orientation to the needs of nurses working in rural and remote communities.

The Certificate requires successful completion of 30 credit hours. Admission occurs in September and January.

The Certificate is designed to be completed on a part-time basis through distance education. Students can complete their BScN through the attainment of 15 additional credit hours of prescribed courses.

This Certificate does not replace the UNBC Post-Diploma BScN program as it offers a focus in one specialized area only. Other focus areas provided through the UNBC Post-Diploma BScN, notably community health, community continuing care, First Nations health and nursing, and nursing management are not included in the Certificate program.

Nursing Program policies for Registered Nurse students pursuing a degree apply to Certificate students.

Transfer Credit

A maximum of 15 credit hours from other recognized institutions may be transferred into the Certificate and the BScN Completion. Nursing courses must have been completed within five years prior to the semester of admission to be eligible for transfer credit into the nursing program.

Students who have completed a Registered Nurse Diploma at a recognized post-secondary institution may be eligible to receive up to 60 credit hours towards the BScN Completion.

Admission Requirements

Applicants must:

- meet UNBC admission requirements
- submit official transcript(s) from degree or diploma program
- provide evidence of active and continuing registration as a nurse in British Columbia. Annual documentation of current, practicing CRNBC licensure is required while enrolled in the program.

Once accepted to the Rural Nursing Certificate Program, all students must complete and submit the specified immunization forms prior to commencing a course with a clinical component. Failure to do so may result in the student not being allowed to practice in the clinical setting.

Certificate Requirements

NURS 451-3	Health Assessment and RN First Call
NURS 452-6	Chronic Disease Management, Palliative Care and
	Wound Care
NURS 453-3	Nursing Practice with Older Persons
NURS 454-6	Perinatal Care
NURS 455-6	Foundations in Emergency and Trauma Nursing
NURS 456-3	Mental Health and Addictions
NURS 457-3	Living and Working in a Rural Community

BScN Completion

Students wishing to complete the UNBC Post-Diploma BScN will be required to successfully complete 15 credit hours in addition to the Rural Nursing Certificate to a total of 45 credit hours.

200 Level STAT 240-3	Basic Statistics, or equivalent
300 Level NURS 304-3	Introduction to Nursing Knowledge
400 Level	
NURS 403-3	Introduction to Nursing Research
NURS 408-3	Nursing Leadership
POLS 403-3	Social and Health Policy and Administration

Outdoor Recreation and Tourism Management Program

Kathy Lewis, Professor and Acting Chair Philip Mullins, Associate Professor John Shultis, Associate Professor Pam Wright, Associate Professor Farhad Moghimehar, Assistant Professor Pat Maher, Adjunct Professor Ian Picketts, Adjunct Professor

Website: www.unbc.ca/outdoor-recreation-tourism-management

Outdoor recreation and nature-based tourism are pare to BC's lifestyle and are now considered to be part of the world's fastest growing industry. The ORTM program capitalizes on the unique location of UNBC by discussing relevant outdoor recreation and nature-based tourism issues within a northern British Columbia, Canadian and international context.

The ORTM program offers two related academic degrees and an associated minor. Students with an interest in the planning and management of outdoor recreation and conservation areas can take a Bachelor of Science in Natural Resources Management with a Major in Outdoor Recreation and Conservation (see Calendar entry under Natural Resource Management).

Students whose interests are more focused on nature-based tourism, tourism marketing, or indigenous and cultural tourism can take a Bachelor of Arts in Nature-Based Tourism (see Calendar entry under Nature-Based Tourism).

Students who are interested in a minor in outdoor recreation, conservation or nature-based tourism management may take a related minor in Outdoor Recreation and Tourism Management (see Calendar entry under Nature-Based Tourism).

Students in the majors/minor will take courses from the ORTM course listings.

Outdoor Recreation and Conservation Major

See Calendar entry under Natural Resources Management-Outdoor Recreation and Conservation.

Outdoor Recreation and Tourism Management Minor

See Calendar entry under Nature-Based Tourism Management.

Nature-Based Tourism Management Major

See Calendar entry under Nature-Based Tourism Management.

Philosophy

Boris DeWiel, Associate Professor, and Coordinating Committee Chair Paul Bowles, Professor (Economics) Kevin Hutchings, Professor (English) Jacqueline Holler, Associate Professor (Women's Studies, History) John Young, Associate Professor

Philosophy is the oldest academic discipline taught at a university. From a functional point of view, philosophy is synonymous with critical thinking. From a formal point of view, it is a body of knowledge answering three questions: what is it (ontology)?; what good is it (axiology)?; and, how do you know it (epistemology)?

Minor in Philosophy

A minor in philosophy requires students to take PHIL 205-3 or POLS 270-3 and PHIL 305-3 or POLS 370-3 in addition to 12 credit hours chosen from courses listed below for a total of 18 credit hours. At least 12 credit hours must be at the 300 or 400 level.

A maximum of four courses (12 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Philosophy.

Required

PHIL 205-3 Introduction to the History of Philosophy or POLS 270-3 Political Philosophy: Antiquity to Early Modernity

PHIL 305-3 History of Philosophy: Early Modernity to Post-Modernity

or POLS 370-3 Political Philosophy: Early Modernity to Post-Modernity

Four of the following:

ANTH 401-3 Anthropological Perspectives on Ingeuality ANTH 405-3 Landscapes, Place and Culture ANTH 406-3 Feminist Perspectives in Anthroplogy COMM 332-3 Business and Professional Ethics CPSC 141-3 Discrete Computational Mathematics ENGL 200-3 Gender and Literary Theory ENGL 300-3 Theory ENGL 400-3 Contemporary Theory ENVS 414-3 Environmental and Professional Ethics FNST 303-3 First Nations Religion and Philosophy FNST 304-4 Indigenous Environmental Philosophy Historiography: The Nature of the Historical HIST 300-3 Discipline HIST 311-3 History of Feminism or WMST 311-3 History of Feminism MATH 224-3 Foundations of Modern Mathematics PHIL 200-3 Critical Thinking Philosophy of Science PHIL 201-3

PHIL 202-3 Comparative Religion PHIL 210-3 Philosophy of Mind or PSYC 202-3 Philosophy of Mind PHIL 302-3 Philosophy of Religion PHIL 325-3 Moral Philosophy or POLS 317-3 Moral Philosophy PHIL 400-3 Classics in Philosophy PHIL 472-3 Philosophy Research Seminar POLS 372-3 Theories of Justice POLS 400-3 Classics in Political Philosophy **Democracy and Diversity** POLS 413-3 POLS 427-3 Ethics and Public Affairs Seminar in Political Philosophy POLS 472-3 WMST 411-3 Contemporary Feminist Theories

Physics (BSc Program)

Ahmed Hussein, Professor Emeritus

Erik Jensen, Professor lan Hartley, Professor and Acting Chair Elie Korkmaz, Professor Matthew Reid, Professor Mark Shegelski, Professor Nicholas Chng, Adjunct Professor Quinn Matthews, Adjunct Professor Narinder Sindh, Adjunct Professor Jamie Sanchez-Fortun Stoker, Adjunct Professor George Jones, Senior Lab Instructor

Website: www.unbc.ca/physics

Physics is the study of nature at its most fundamental level. As such it is the science upon whose principles all other sciences and technologies are based. Because it is so basic, a major in physics is ideal preparation, not only for further study in physics, but also for advanced study in such diverse fields as biophysics, medicine, astrophysics, chemical physics, engineering, meteorology, and computer science.

Major in Physics

A major in Physics requires students to complete 49 credit hours of Physics; 27 credit hours of these must be at the upper-division level.

PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

The minimum requirement for completion of a Bachelor of Science degree with a major in Physics is 120 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

CHEM 100-3 General Chemistry I MATH 100-3 Calculus I

or MATH 105-3 Enriched Calculus

MATH 101-3 Calculus II

PHYS 110-4 Introductory Physics I: Mechanics

Introductory Physics II: Waves and Electricity PHYS 111-4

CPSC 100-4 Computer Programming I

> or CPSC 110-3 Introduction to Computer Systems and

Programming

200 Level

MATH 200-3 Calculus III

MATH 201-3 Introduction to Complex Analysis

MATH 220-3 Linear Algebra

MATH 230-3 Linear Differential Equations and Boundary Value

Problems

PHYS 200-3 Thermal Physics

PHYS 202-4 Electromagnetism and Optics

PHYS 205-3 Modern Physics I

Four additional credit hours of Physics at the 200 level.

Upper-Division Requirement

300 Level

MATH 336-3 Intermediate Differential Equations PHYS 300-3 Classical Mechanics PHYS 302-3 Quantum Mechanics I PHYS 310-3 Classic Electromagnetism I

400 Level

PHYS 400-3 Quantum Mechanics II

PHYS 401-3 Seminar on Contemporary Topics in Physics

PHYS 407-3 Statistical Mechanics

Nine additional credit hours of Physics at the 300 or 400 level.

Elective and Academic Breadth

Elective credit hours as necessary to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Recommended electives include:

CPSC 101-4 Computer Programming II CHEM 101-3 General Chemistry II CHEM 200-3 Physical Chemistry I MATH 335-3 Numerical Analysis I

STAT 371-3 Probability and Statistics for Scientists and

Engineers

BSc Honours – Physics

The Honours Program in Physics offers students a higher level of physics education and physics research experience for proceeding to postgraduate studies in physics or related fields. Honours students must complete the program requirements for the BSc degree in Physics (Major in Physics). In addition, they must complete PHYS 402 for a minimum of 3 credit hours and submit for approval an undergraduate thesis or research project report under the supervision of a faculty member.

Students can seek entry to the Honours program after the completion of 60 credit hours with a Cumulative GPA of at least 3.33, and their continuance in the program also requires maintaining a Cumulative GPA of 3.33 or better. Entry to the Honours Program is at the discretion of the Physics Department.

Chemistry/Physics Joint Major

See Calendar entry under Chemistry.

Computer Science/Physics Joint Major

See Calendar entry under Computer Science.

Mathematics/Physics Joint Major

See Calendar entry under Mathematics.

Minor in Physics

Students interested in obtaining a minor in Physics must complete 27 credit hours of Physics, of which 12 must be at the upper level.

A maximum of four courses (consisting of two 100 level courses plus two courses at the 200 level or beyond to a maximum of 15 credit hours) which are used to fulfill requirements for a major (or another minor) may also be used to fulfill requirements for a minor in Physics. The following courses are required:

PHYS 110-4 Introductory Physics I: Mechanics

PHYS 111-4 Introductory Physics II: Waves and Electricity

PHYS 202-4 Electromagnetism and Optics

PHYS 205-3 Modern Physics I

Twelve credit hours of 300 or 400 level PHYS.

The upper-division courses are selected in consultation with an advisor from the Physics Department to reflect the student's specific interests. PHYS 307-3 (Selected Topics in Environmental Physics) may not be used as Physics credit toward any Physics major, minor, or joint major.

Planning Major

See Calendar entry under Environmental Planning.

Political Science (BA Program)

Alex Michalos, Professor Emeritus

Boris DeWiel, Associate Professor and Chair Michael Murphy, Professor, and Canada Research Chair, Comparative Indigenous-State Relations

Gary Wilson, Professor

Natalia Loukacheva, Associate Professor, and Canada Research Chair, Aboriginal Governance and Law

Tracy Summerville, Associate Professor John Young, Associate Professor Jason Lacharite, Assistant Professor Walter Babicz, Adjunct Professor Alberto De Feo, Adjunct Professor Jason Morris, Lecturer

Website: www.unbc.ca/political-science

Besides literacy and numeracy, citizenship and diplomacy are fundamental skills needed to achieve a good quality of life. Citizenship includes both the rights and duties of membership in a political community. Diplomacy is the art and practice of reaching agreements through negotiation. A healthy democracy requires the active and informed participation of its citizens, but this is only possible with a good understanding of its political institutions, processes and issues. Political Science is the discipline devoted to the systematic investigation of citizenship and diplomacy in local, national and international communities.

To achieve its purposes, the Department of Political Science offers the opportunity to study political philosophy, comparative politics, Canadian government, international politics and public administration. The latter field is offered in the Public Administration Certificate, which focuses on municipal and local government administration.

Majors in Political Science must take a minimum of 51 credit hours in Political Science or other designated disciplines.

The minor requires a minimum of six Political Science courses. Students may also choose to complete one or both of the above mentioned certificates in public administration (see below for a description and a listing of requirements for the two certificate programs).

Political Philosophy

Political philosophy investigates normative questions about political life: What is the best form of government? What is justice? Is there an inherent right to self-government?

Comparative Politics

Comparative politics examines the relationships between government and society around the world. This includes studies of individual countries such as Russia or the United States, as well as political issues such as the role of government in the economy, transitions to democracy or aboriginal-state relations across sets of countries.

Canadian Government

The study of Canadian government investigates the conflicts and challenges within Canadian society and the institutions of government at federal, provincial, local and First Nations levels. This includes such topics as Canadian political culture, federalism, political economy and the Charter.

International Politics

International politics examines politics among nations and will cover a wide variety of topics such as Canadian Foreign Policy, International Organizations as well as a diversity of theoretical approaches.

Major in Political Science

Political Science majors are required to take 51 credit hours in Political Science and related disciplines.

The Political Science major offers a foundation in four fields of political science: Canadian Government, Comparative Politics, Political Philosophy and International Politics.

The minimum requirement for completion of a Bachelor of Arts with a major in Political Science is 120 credit hours.

Program Requirements

Lower-Division Requirement

100 Level

POLS 100-3	Contemporary Political Issues
INTS 100-3	Introduction to Global Studies

200 Level

POLS 200-3	Canadian Government and Politics
POLS 202-3	Canada in Comparative Perspective
POLS 270-3	Political Philosophy: Antiquity to Early Modernity
POLS 290-3	Research and Writing for Political Science

Upper-Division Requirement

POLS 303-3	Democracy and Democratization
POLS 320-3	Canadian Politics and Policy
POLS 370-3	Political Philosophy: Early Modernity to

Post-Modernity

Nine credit hours of 400-level Political Science courses

Six additional credit hours of upper-division Political Science courses

Nine credit hours of upper-division Global and International Studies courses

Elective and Academic Breadth

Students take electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours. This includes taking any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Economics/Political Science Joint Major

See Calendar entry under Economics.

English/Political Science Joint Major

See Calendar entry under English.

Environmental Studies/Political Science Joint Major

See Calendar entry under Environmental Studies.

History/Political Science Joint Major

See Calendar entry under History.

International Studies/Political Science Joint Major

See Calendar entry under International Studies.

Joint Major in Political Science/ Women's Studies

The Political Science/Women's Studies Joint Major equips students to understand the relationship between the study of the literature and its women's studies context. The degree is particularly attractive to students who intend to pursue a career in teaching or further studies in Political Science or Women's Studies.

The minimum requirement for completion of a Bachelor of Arts with a Joint Major in Political Science and Women's Studies is 120 credit

Program Requirements

Lower-Division Requirement

ECON 205-3	Statistics for the Social and Management Sciences 3-3 Basic Statistics
POLS 100-3	Contemporary Political Issues
POLS 200-3	Canadian Government and Politics
POLS 202-3	Canada in Comparative Perspective
POLS 270-3	Political Philosophy: Antiquity to Early Modernity
POLS 290-3	Reading and Writing for Political Science
WMST 100-3	Introduction to Women's Studies

Three additional Women's Studies courses (9 credit hours) at the 100 or 200 level.

Upper-Division Requirement

HIST 311-3	History of Feminism
INTS 308-3	Gender and International Studies
POLS 320-3	Canadian Politics and Policy
POLS 370-3	Political Philosophy: Early Modernity to
	Post-Modernity
WMST 302-3	Women and the Contemporary World
WMST 307-3	Qualitative Research Methods

Three additional Political Science courses (9 credit hours) at the 400 level.

Additional Requirement

Three additional courses selected from:

ANTH 401-3	Anthropological Perspectives on Inequality
ANTH 406-3	Feminist Perspectives in Anthropology
COMM 333-3	Women in Organizations
ECON 301-3	Women and the Economy
ENVS 309-3	Gender and Environment
FNST 407-3	First Nations Perspectives on Race, Class,
	Gender and Power
HIST 309-3	Women in Canada
HIST 453-3	Topics in the History of Gender
HIST 454-3	Topics in Women's History
NURS 412-3	Women and Health
SOCW 433-3	Women in the Human Services
SOCW 449-3	Gender and Sexuality
	ANTH 406-3 COMM 333-3 ECON 301-3 ENVS 309-3 FNST 407-3 HIST 309-3 HIST 453-3 HIST 454-3 NURS 412-3 SOCW 433-3

WMST 303-3	Lesbian and Bisexual Lives
WMST 304-3	Contemporary Women's Writing in an
	International Frame
WMST 309-3	Gender and Film
WMST 312-3	Introduction to the History of Gender
WMST 401-3	Cultural Studies: Gender, Race, and
	Representation
WMST 410-3	Feminist Political Philosophy
WMST 411-3	Contemporary Feminist Theories
WMST 413-3	Topics in Aboriginal Women's Studies
WMST 420-3/	
ENGL	. 410-3 Contemporary Women's Literature
WMST 498-(3-6)	Selected Topics in Women's Studies

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

Minor in Political Science

This minor provides students with a foundation in each of the fields of Canadian Politics, Comparative Politics, and Political Theory, as well as permits some specialization in upper-division courses.

A minor in Political Science requires students to take at least six Political Science courses (18 credit hours), at least four of which must be upper division.

A maximum of two courses (6 credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Political Science.

To fulfill the minor, students must successfully complete the following courses:

POLS 100-3 Contemporary Political Issues

One of:

POLS 200-3 Canadian Government and Politics
POLS 202-3 Canada in Comparative Perspective
POLS 270-3 Political Philosophy: Antiquity to Early
Modernity

and four upper-division courses in Political Science.

Alternative courses may be substituted for the above with the written permission of the Department Chair or Dean of the College.

Psychology (BSc Program)

Steven Cronshaw, Professor Emeritus Kenneth Prkachin, Professor Emeritus

Paul Siakaluk, Professor and Chair Sherry Beaumont, Professor Henry Harder, Professor Cindy Hardy, Professor Han Li, Professor Daniel Weeks, Professor William Owen, Associate Professor Annie Duchesne, Assistant Professor Loraine Lavallee, Assistant Professor Heath Matheson, Assistant Professor James Climenhage, Adjunct Professor

Tammy Klassen-Ross, Adjunct Professor Glenda Prkachin, Adjunct Professor Elizabete Rocha, Adjunct Professor Cherisse Seaton, Adjunct Professor Julie Howard, Senior Lab Instructor

Website: www.unbc.ca/psychology

Psychology is the study of behaviour, feelings and thinking. Psychologists study the biopsychosocial and developmental mechanisms and processes that regulate the behaviour of individuals. The goal of the Department of Psychology is to provide advanced knowledge in the substantive areas of Psychology. In addition, the Department provides excellent training that enhances students' competitiveness for advanced graduate study in Psychology and related areas.

Major in Psychology

Undergraduate students are required to take seventeen psychology courses (53 credit hours). Of these, at least twelve (38 credit hours) must be upper-division courses.

The minimum requirement for completion of a Bachelor of Science with a major in Psychology is 122 credit hours.

Program Requirements

Lower-Division Requirement

100 and 200 Level

PSYC 101-3 Psychology as a Science
PSYC 102-3 Psychology and Human Problems

PSYC 215-3 Research Design and Methodology in Psychology I

Two additional Psychology 200-level courses

Note: It is strongly recommended that students planning to major in Psychology select at least one elective course in Mathematics and one in Biology within the first two years.

Upper-Division Requirement

300 and 400 Level

PSYC 315-4 Design and Analysis of Psychological Research I PSYC 316-4 Design and Analysis of Psychological Research II

Two of:

PSYC 307-3	Motivation and Emotion
PSYC 317-3	Psychobiology
PSYC 318-3	Sensation and Perception
PSYC 320-3	The Psychology of Learning
PSYC 330-3	Cognition

Two of:

PSYC 301-3	Social Psychology
PSYC 303-3	Introduction to Abnormal Psychology
PSYC 306-3	Theories of Personality
PSYC 309-3	Introduction to Health Psychology
PSYC 345-3	Lifespan Development

One of:

Ji.	
PSYC 442-3	Methods in Developmental Psychology
PSYC 445-3	Methods in Perception and Psychophysics
PSYC 450-3	Tests and Measures
PSYC 455-3	Methods in Social Psychology
PSYC 460-3	Methods in Cognitive Psychology
PSYC 470-3	Psychophysiology
PSYC 475-3	The Evaluation of Social Programs
PSYC 480-3	Critical Analysis in Psychology and the Health
	Sciences
PSYC 485-3	Current Topics in Psychological Research

Fifteen credit hours of 300- or 400-level Psychology courses, of which six credit hours must be at the 400 level.

Elective and Academic Breadth

Electives at any level in any subject sufficient to ensure completion of a minimum of 122 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

BSc Honours – Psychology

Honours students are required to complete 122 credit hours. Students must successfully complete the 53 credit hours for the Psychology BSc program, 57 credit hours of electives and 12 credit hours from the courses listed below.

PSYC 490-3 Honours Thesis I PSYC 495-3 Honours Thesis II PSYC 497-3 Senior Seminar

and one additional 400-level Psychology course.

Each student must complete a thesis (PSYC 490-3 Honours Thesis and PSYC 495-3 Honours Thesis II) under the supervision of a faculty member. Entry to the Honours Program takes place after the end of the second year (i.e., upon completion of at least 60 credit hours) and requires a minimum GPA of 3.33 calculated on the last 60 credit hours completed at the time of declaration to the Honours Program. Attaining the minimum requirement does not guarantee entry to the Honours Program, which will be at the discretion of the Department. To remain in the Honours Program students must maintain a minimum Semester GPA of 3.33 to be calculated at the end of each semester as well as receive no grade lower than a C+ in any course after entry to the Honours Program.

The minimum requirement for completion of a BSc Honours - Psychology is 122 credit hours.

Minor in Psychology

The minor in Psychology provides students with a foundation in the natural and social science components of the discipline and exposure to its basic observational and analytic methods. It also allows the student to pursue special interests within the discipline at the upper year levels.

A maximum of two courses (six credit hours) used to fulfill program requirements for a major or another minor may also be used to fulfill requirements for a minor in Psychology.

To fulfill the minor, students must successfully complete a total of 21 credit hours from the following courses:

PSYC 101-3 Psychology as a Science
PSYC 102-3 Psychology and Human Problems
PSYC 215-3 Research Design and Methodology in Psychology

One of:

PSYC 301-3	Social Psychology
PSYC 303-3	Introduction to Abnormal Psychology
PSYC 306-3	Theories of Personality
PSYC 309-3	Introduction to Health Psychology
PSYC 345-3	Lifespan Development

One of:

PSYC 307-3	Motivation and Emotion
PSYC 317-3	Psychobiology
PSYC 318-3	Sensation and Perception
PSYC 320-3	The Psychology of Learning
PSYC 330-3	Cognition

Two other 300 or 400 level Psychology courses.

Public Administration Certificate Program

The Certificate program is intended to enhance public access to a university education with a flexible course of study that allows either a short term exit (upon completion of Certificate requirements) or the option of laddering into other programs, including the Bachelor program.

The Certificate also provides flexibility. All courses in the Certificate are university-credit courses. This means that students can apply credit taken in their Certificate to other programs should they later decide to pursue a Bachelor's degree. Moreover, the requirements for the Certificate could be completed in one year or could be completed on a part-time basis over several years, depending upon course scheduling and the situation of the student.

As soon as a student completed the ten courses required in the program of study, the student would be eligible to receive his or her Certificate. The completion of the Certificate would give students the equivalent of one full year of university credit. This provides a laddered program of study which could result in the completion of a Bachelor's degree with three more years of study at UNBC or another university. Because the program is based on existing undergraduate courses, Certificate students will take their courses alongside regular, full-time students.

The requirements for admission into a Certificate program are the same as for any student enrolled in a UNBC undergraduate program.

To be eligible for a certificate, students must achieve a minimum GPA of C, based on all courses taken at UNBC that are applied to the Certificate. University transfer credits also can be applied to the program, as appropriate, to a maximum of 15 credit hours.

Public Administration

The Certificate in Public Administration consists of ten courses (30 credit hours) drawn primarily from the Political Science program; offerings from Business Administration, Economics and English are also included. The program is generic in nature so that the knowledge acquired from the program of study can be transferred to different government settings, as well as to the variety of situations that students will encounter throughout their lives. At the same time, the courses in the Certificate place special emphasis on local government in the north which sets it apart from similar programs offered by institutions in the southern regions of the province.

The purpose of the certificate is three-fold: first, to provide educational opportunities to assist individuals involved in the administration of municipal governments, health boards, school boards and provincial government departments and agencies in northern British Columbia; second, to deliver the four specialized courses in local government administration for the Municipal Officers' Association Intermediate Certificate in Municipal Administration; and, third, to provide expanded educational opportunities at the university level for students who are not in a position to commit to a four-year program of study.

Certificate Requirements

100 Level

ENGL 170-3 Writing and Communication Skills

ECON 101-3 Macroeconomics

POLS 100-3 Contemporary Political Issues

200 Level

COMM 210-3 Financial Accounting

POLS 200-3 Canadian Government and Politics

300 Level

POLS 316-3* Municipal Government and Politics
POLS 350-3* Law and Municipal Government
POLS 351-3* Local Services and Public Policy
POLS 360-3* Local Government Finance

Three credit hours of electives at any level and in any subject.

*Courses for the MOA Intermediate Certificate in Municipal Administration.

Public Administration and Community Development Major

See Calendar entry under Geography.

Russian Studies

Michel Bouchard, Professor (Anthropology)
Gail Fondahl, Professor (Geography)
Gary Wilson, Professor (Political Science)
John Young, Assistant Professor (Political Science)

Website: www.unbc.ca/russian_studies

Minor in Russian Studies

This minor is designed to provide students with an interdisciplinary course of study of Russia as a complement to their major program. The minor requires students to take a total of 21 credit hours.

To fulfill the minor, students must successfully complete the following courses:

Language

INTS 131-3 Beginning Russian I INTS 132-3 Beginning Russian II

Area Studies

GEOG 222-3 World Regions: Russia
HIST 356-3 Soviet History
INTS 200-3 Contemporary Russia
POLS 311-3 Russian Politics and Society

Additional Requirements

One of:

HIST 355-3 Russian Imperial History
POLS 405-3 Topics in Society and Democracy

Note: Students intending to pursue advanced Russian studies are strongly recommended to take the second year level Russian language courses:

INTS 231-3 Intermediate Russian I INTS 232-3 Intermediate Russian II

Transfer Credits

Courses taken in other programs or at other universities (including those in Russia) may be counted as courses towards the minor requirements with permission from the Russian Studies Committee.

Social Work (BSW Program)

- Child Welfare Specialization
- First Nations Specialization

Social Work (Post Baccalaureate Certificates)

Child Welfare Certificate (CWC)

Dawn Hemingway, Associate Professor and Chair Glen Schmidt, Professor Bruce Bidgood, Associate Professor Nancy Jokinen, Associate Professor Indrani Margolin, Associate Professor Heather Peters, Associate Professor Joanna Pierce, Associate Professor Si Chava Transken, Associate Professor Susan Burke, Assistant Professor Tammy Pearson, Assistant Professor Dave Sangha, Assistant Professor

Website: www.unbc.ca/social-work

The School of Social Work offers a schedule of studies leading to the degree of Bachelor of Social Work (BSW).

The Bachelor of Social Work at UNBC is designed to prepare students for beginning level generalized social work practice with individuals, families, groups and communities. The program's orientation places emphasis on Social Work in northern and remote areas, First Nations, women and the human services, and community practice and research. Analyses of class, gender and race relations are considered central to the School of Social Work. As mandated by its accrediting body, the Canadian Association for Social Work Education (CASWE), and the relevant Social Work Codes of Ethics, Social Work at UNBC provides a professional program that advocates for justice and equality, and equips graduates with the intellectual, analytical, practical and professional skills needed to promote beneficial change.

Admission Requirements

Admission to the Bachelor of Social Work program is limited and is based on academic qualifications and available space. Students will normally complete 60 credit hours of study that includes a minimum of 48 credit hours of liberal arts and science courses. Students will achieve a minimum grade point average of 2.67 (B-) (calculated on a student's most recent 60 credit hours of study) and meet other selection criteria prior to program entry. More information about these criteria can be found in the BSW Supplementary Application for Admission form.

Students who have completed a social service worker program at a community college may be eligible for discretionary transfer credit.

The School of Social Work will permit up to three Social Work elective courses to be taken prior to formal admission to the BSW program.

Successful completion of these courses does not guarantee admission into the program.

Students will be required to undergo a criminal records search prior to being admitted (see Academic Regulation 20).

Undergraduate students are required to take 60 credit hours of Upper-Division Social Work courses. The minimum requirement for a Bachelor of Social Work is 120 credit hours.

Students applying to the School of Social Work will have completed the following four BSW course prerequisites:

SOCW 200-3 Introduction to Social Work Practice
SOCW 201-3 Introduction to Social Welfare
FNST 100-3 The Aboriginal Peoples of Canada
WMST 100-3 Introduction to Women's Studies

Students applying to the School of Social Work with a Baccalaureate degree in a related discipline do not have to complete the four BSW course prerequisites.

Students admitted to the Bachelor of Social Work program are required to withdraw from the Bachelor of Social Work program if they register a second fail in Social Work Field Education (SOCW 302-6 and/or SOCW 402-15).

The minimum requirement for a Bachelor of Social Work is 120 credit hours.

Field Placements

Every effort will be made to secure appropriate field placements for students in the School of Social Work. However, the location and type of placement are subject to availability.

Costs Associated with the School of Social Work

Costs associated with study in the School of Social Work are the responsibility of the individual student, including transportation costs and any expenses involved in academic studies, lab, and field placement. In some circumstances, students may complete field experiences at sites other than their campus of registration. Provision for all travel, accommodation, and living expenses associated with field education is the sole responsibility of the student.

Standards of Professional Conduct

All students are expected to abide by professional standards as set forth by the Canadian Association for Social Work Education (CASWE) and the relevant Social Work Codes of Ethics. Violation of professional standards may result in suspension or dismissal from the program or the educational institution.

Academic Performance

Students may repeat a Social Work course once. Students who fail a required Social Work course twice are required to withdraw from the program.

Qualification for Degree

It is the responsibility of the student to ensure that his/her degree requirements are met. Graduation requirements are found in the Regulations and Policies section of this Calendar. To fulfill the requirements of graduation, the student must also:

- attain a minimum Cumulative GPA of 2.33 (C+) on courses for credit towards the Social Work degree.
- obtain a minimum passing grade of 2.00 (C) in every Social Work course for credit towards the degree (note: Students enrolling in any required course must have completed all prerequisites with a grade of C or better); and
- complete all requirements for the BSW program within eight years of admission into the program or from the first Social Work course used for credit towards the degree.

In addition, BSW students may choose to meet the requirements for one of the Areas of Specialization described in this degree program. The Specialization will be recorded on the student's transcript.

Transfer Credit

300 Level SOCW 300-3

SOCW 301-3

All transfer credit for course work taken prior to admission to the BSW program will be evaluated, and applied at the time of initial registration in the program. After students have been admitted to the School of Social Work, course work taken in other institutions for transfer credit towards the degree requires a letter of permission prior to the registration in the course.

Social Work Communication Skills

Critical Social Work Practice

Program Requirements

30000 301-3	Cittical Social Work I factice
SOCW 302-6	Social Work Field Education I
SOCW 310-3	First Nations Social Work Issues
SOCW 320-3	Critical Social Policy
SOCW 330-3	Social Work Research/Policy/Practice
SOCW 336-3	Social Work Philosophy and Ethics
400 Level	
SOCW 401-3	Northern/Remote Social Work Practice
SOCW 402-15	Social Work Field Education II
SOCW 420-3	Family/Child Welfare Policy
SOCW 421-3	Human Growth and Development

Students must select an additional 12 credit hours of approved 400-level Social Work courses from the approved list.

Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

BSW: Child Welfare Specialization

The Child Welfare Specialization provides a program of studies that prepares students for practice in child welfare, while also satisfying the general practice criteria required for BSW accreditation and for designation as a Registered Social Worker (RSW).

Students must meet all prerequisites for entry into the UNBC BSW program and must be accepted into the program. The fourth-year practicum takes place in a child welfare setting or a First Nations child welfare Agency. Completion of the specialization is noted on the student's graduating transcript. Note: This specialization is distinct from "Areas of Specialization" within a major as set out in Academic Regulation 24 (Minor, Areas of Specialization and Areas of Focus).

The Child Welfare Specialization is designed to provide a Social Work degree that prepares students for social work practice in all child and family serving agencies.

Program Requirement

SOCW 300-3	Communication Skills in Social Work Practice
SOCW 301-3	Critical Social Work Practice
SOCW 302-6	Social Work Field Education I
SOCW 310-3	First Nations Social Work Issues
SOCW 320-3	Critical Social Policy
SOCW 330-3	Social Work Research, Policy and Practice
SOCW 336-3	Social Work Philosophy and Ethics
SOCW 401-3	Northern and Remote Social Work Practice
SOCW 402-15	Social Work Field Education II
SOCW 420-3	Family/Child Welfare Policy
SOCW 421-3	Human Growth and Development
SOCW 422-3	Child Welfare Practice
SOCW 426-3	Current Issues in Child Welfare Practice
SOCW 439-3	Social Work/Law and the Justice System

Select one (1) Social Work Elective from the Approved List.

Elective Requirement

Electives at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

BSW: First Nations Specialization

The First Nations Specialization provides a program of studies that prepares students for practice with First Nations people, while also satisfying the general practice criteria required for BSW accreditation and for designation as a Registered Social Worker (RSW).

Students must meet all prerequisites for entry into the UNBC BSW program and must be accepted into the program. The fourth-year practicum takes place in a First Nations setting.

Completion of the specialization is noted on the student's transcript. Note: This Specialization is distinct from "Areas of Specialization" within a major as set out in Academic Regulation 24 (Minors, Areas of Specialization and Areas of Focus).

Program Requirement

SOCW 300-3	Social Work Communication Skills
SOCW 301-3	Critical Social Work Practice
SOCW 302-6	Social Work Field Education I
SOCW 310-3	First Nations Social Work Issues
SOCW 320-3	Critical Social Policy
SOCW 330-3	Social Work Research, Policy and Practice
SOCW 336-3	Social Work Philosophy and Ethics
SOCW 401-3	Northern and Remote Social Work Practice
SOCW 402-15	Social Work Field Education II
SOCW 420-3	Family/Child Welfare Policy
SOCW 421-3	Human Growth and Development
SOCW 455-3	First Nations Governance and Social Policy
SOCW 456-3	Family Caring Systems
SOCW 457-3	Individual and Community Wellness

Select one Social Work elective from the approved List.

Elective Requirement

An elective at any level in any subject sufficient to ensure completion of a minimum of 120 credit hours.

Child Welfare Certificate

The Child Welfare Certificate program is open only to Bachelor of Social Work and Bachelor of Child and Youth Care graduates. The Certificate is designed to prepare students for child welfare work, with a particular focus on practice in the northern and rural regions of British Columbia. However, certificate graduates will be well prepared to work in all agencies and locations that provide child welfare service. The Certificate consists of 18 credit hours. Admission into the Certificate program is limited. Students must establish their course of study with approval from the Chair of the School of Social Work.

Students will be required to undergo a criminal records search prior to being admitted. Refer to Academic Regulation 20.

A maximum of 6 credit hours may be transferred from courses taken in the UNBC Bachelor of Social Work Program, or from other recognized institutions into the Certificate program.

Standards of Professional Conduct

All students are expected to abide by professional standards as set forth by the Canadian Association for Social Work Education (CASWE) and the relevant Social Work Codes of Ethics. Violation of professional standards may result in suspension or dismissal from the program or the education institution.

Qualification for a Certificate

To fulfill the requirements of graduation, the student must:

- attain a minimum cumulative GPA of 2.33 (C+) on courses for credit towards the Certificate
- complete all course requirements for the Certificate

Certificate Requirements

SOCW 401-3	Northern and Remote Social Work
	Nothiem and nemote Social Work
SOCW 422-3	Child Welfare Practice
SOCW 426-3	Current Issues on Child Welfare Practice
SOCW 439-3	Social Work/Law and the Justice System
SOCW 497-3	Reflection on Practice
SOCW 499-3	Directed Readings

Statistics Minor

See Calendar entry under Mathematics and Statistics.

Wildlife and Fisheries Major

See Calendar entry under Natural Resources Management-Wildlife and Fisheries.

Women's Studies (BA Program)

Jacqueline Holler, Associate Professor, and Coordinator Maryna Romanets, Associate Professor Stephanie Cousineau, Assistant Professor Theresa Healy, Adjunct Professor

Website: www.unbc.ca/gender-studies

Women's Studies is an interdisciplinary field dedicated to studying the historical, cultural, literary, and societal role of women and gender. UNBC's program has strengths in areas such as women's and gender history; gender, literature, and literary theory; gender, colonialism, and postcolonialism; gender and globalization; feminism, justice, and ethics; gender and health; and gender and international studies.

The Women's Studies program offers majors and minors in Women's Studies and, in cooperation with other programs, four joint majors. At the graduate level, the program offers a Master's degree in Gender Studies.

Major in Women's Studies

A major in Women's Studies requires students to take 48 credit hours of Women's Studies (16 courses), at least 36 credit hours of which must be upper-division courses either in Women's Studies or from the gender-and/or women related offerings of other programs.

The minimum requirement for completion of a Bachelor of Arts with a major in Women's Studies is 120 credit hours.

Program Requirements

Lower-Division Requirement

WMST 100-3 Introduction to Women's Studies

Three additional Women's Studies courses at the 100 or 200 Level.

Upper-Division Requirement

WMST 302-3	Women and the Contemporary World
WMST 307-3	Qualitative Research Methods

Three of

ree	OT:	
	WMST 306-3/	
	FNST 306-3	Indigenous Women: Perspectives
	WMST 311-3/	
	HIST 311-3	History of Feminism
	WMST 312-3/	
	HIST 312-3	Introduction to the History of Gender
	WMST 413-(3-6)/	
	FNST 413-(3-6)	Topics in Aboriginal Women's Studies
	WMST 420-3/	
	ENGL 410-3	Contemporary Women's Literature

Additional Requirement

Sever	n courses (21 credi	its) selected from the following:
	WMST 303-3	Lesbian and Bisexual Lives
	WMST 304-3	Contemporary Women's Writing in an
		International Frame
	WMST 309-3	Gender and Film
	WMST 401-3	Cultural Studies: Gender, Race, and
		Representation
	WMST 410-3	Feminist Political Philosophy
	WMST 411-3	Contemporary Feminist Theories
	WMST 498-(3-6)	Selected Topics
	ANTH 401-3	Anthropological Perspectives on Inequality
	ANTH 406-3	Feminist Perspectives in Anthropology
	COMM 333-3	Women in Organizations
	ECON 301-3	Women and the Economy
	ENVS 309-3	Gender and Environment
	FNST 407-3	Race, Class, Gender, and Power
	HIST 309-3	Women in Canada
	HIST 453-3	Topics in the History of Gender
	HIST 454-3	Topics in Women's History
	INTS 308-3	Gender and International Studies
	NURS 412-3	Women and Health
	SOCW 433-3	Women in the Human Services
	SOCW 449-3	Gender and Sexuality

Alternative courses related to women and/or gender may be substituted with the written permission of the Program Coordinator.

Elective and Academic Breadth

Electives to ensure completion of a minimum of 120 credit hours including any additional credits necessary to meet the Academic Breadth requirement of the University (see Academic Regulation 15).

English/Women's Studies Joint Major

See Calendar entry under English.

First Nations Studies/Women's Studies Joint Major

See Calendar entry under First Nations Studies.

History/Women's Studies Joint Major

See Calendar entry under History.

Political Science/Women's Studies

Joint Major

See Calendar entry under Political Science.

Minor in Women's Studies

In conjunction with a major in another program, students may pursue a minor in Women's Studies. A minor in Women's Studies requires 18 credit hours of Women's Studies courses, 12 of which must be upper-division courses. Courses used to fulfill program requirements for a major (or another minor) may not be used toward a minor in Women's Studies.

Course Descriptions

Course Prefixes Listed Alphabetically

Course Code Courses
ANTH Anthropology
ARTS Arts
ASTR Astronomy

BCMB Biochemistry and Molecular Biology

BIOL Biology CHEM Chemistry

COMM Commerce/Business Administration

COOP Cooperative Education CPSC Computer Science

CORE Core
ECON Economics
EDUC Education
ENGL English
ENGR Engineering

ENPL Environmental Planning

ENSC Environmental Science and Engineering

ENVS Environmental Studies
FNDS Foundation Year Curriculum
FNST First Nations Studies

FSTY Forestry GEOG Geography

HHSC Health and Human Science

HIST History

INTS Global and International Studies

INTX International Exchange

MATH Mathematics

NOLS National Outdoor Leadership School

NORS Northern Studies

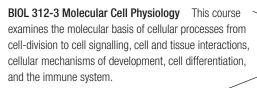
NREM Natural Resources Management

NRES Natural Resources and Environmental Studies

NURS Nursing

ORTM Outdoor Recreation and Tourism Management

PHIL Philosophy
PHYS Physics
POLS Political Science
PSYC Psychology
SOCW Social Work
STAT Statistics
WMST Women's Studies



Prerequisites: BIOL 311-3 —

Precluded: BIOL424-3

Upper-division and Graduate Level Courses

Credit is not granted for both 400 and 600 level courses having the same title, unless otherwise specified in the course description.

Prerequisites

A prerequisite course is an academic requirement that must be completed prior to the student taking a course. Unless otherwise stated, a passing grade of "D-" or better is required to satisfy as a prerequisite course.

Prerequisites are used to ensure that a student has the required background to successfully complete the course. Prerequisites may also have prerequisites. These prerequisites must also be fulfilled.

For example: COMM 314-3 has a prerequisite of COMM 313-3, COMM 313-3 has a prerequisite of COMM 210-3, and COMM 210-3 has a pre- or co-requisite of COMM 100-3. In this case, a student must have credit for COMM 313-3, COMM 210-3, and COMM 100-3 before being eligible to enroll in COMM 314-3.

Course Offerings

Not all courses are offered every year. Check online Course Listings for a list of the courses being offered in each semester.

Course Descriptions

The following explanation will help clarify the terms found in the course descriptions.

Course Number—indicates discipline and level of study (100-299 for lower division, 300-499 for upper division, 500 for honours level and post-baccalaureate courses).

Credit Hours—credit hours are assigned to each course; most courses are 3 credit hours.

Courses with Variable Credit Hours—some courses are listed with a choice of credit hours; for example: (3-6) implies that the course may be offered for any number of credits from 3 to 6 inclusive. Some courses may be repeated for credit when the subject matter differs substantially. Where an option to repeat is available, a statement to this effect appears within the course description.

Course Title

Course Description

Prerequisites/Co-requisites—are requirements needed before or concurrent with a student's registration in the course. This section may also contain recommendations that will help students understand the course materials better.

Precluded Courses—Students cannot receive credit for both the course being described and the course listed in this section.

Anthropology (ANTH)

ANTH 102-3 Anthropology: A World of Discovery Using a thematic approach, this course explores what defines the human species. Some of the themes explored may include human evolution and our primate biological kin; archaeology and digging for the past; culture in a global world; communication or the essentials of being a talking and increasingly texting primate; health as a social and biological; production and consumption, from the first stone tools to the Big Mac; and other topics that deal with humanity past and contemporary.

Prerequisites: None

Precluded: ANTH 100-3, ANTH 101-3

ANTH 200-3 Biological Anthropology A survey of the origins and evolution of human population diversity. Topics covered include an introduction to evolutionary and population genetic theory; trends and debates in human evolution; principles of human growth, development and aging; and polymorphism, polytypism and biocultural adaptation in human populations.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 201-3 Medical Anthropology Understanding of wellness in various cultural systems studied through the classification of health and illness categories, and the range of approaches to maintaining and intervening in health processes. Examples relevant to Northern people and issues will be developed.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 203-3 Archaeology of the Americas A survey of the archaeological record of prehistoric human occupation of North, Central and South America. Issues such as peopling of the New World, paleo-Indian adaptations, origins of agriculture, the expansion and contraction of interaction spheres, and the consequences of contact will be considered from a regional and continental perspective.

Prerequisites: None Recommended: ANTH 102-3

ANTH 205-3 Introduction to Archaeology An introduction to archaeological methods. This course will trace the developmental history of the discipline, and will focus on current methods and techniques used in archaeology. Using case studies drawn from around the globe, the course will highlight the holistic and interdisciplinary nature of archaeology.

Prerequisites: None Recommended: ANTH 102-3

ANTH 206-3 Ethnography in Northern British Columbia survey of the ethnographic literature for this region, and an introduction to the methodology and paradigms of ethnographic research.

Prerequisites: None Recommended: ANTH 102-3 **ANTH 207-3 Popular Culture** The study of contemporary cultural phenomena with anthropological methods.

Prerequisites: None

Recommended: ANTH 102-3 Precluded: ANTH 412-3

ANTH 209-3 Pacific Ethnography A survey of the ethnographic literature of the Pacific with a focus on selected cultures and/or regions. The course will discuss the methodology and paradigms of the area's ethnographic research.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 211-3 Anthropology Through Film This course will introduce the student to the subject matter and theories of social and cultural anthropology through the extensive use of anthropological and documentary film. Topics will cover a spectrum of issues, including: marriage and the family; economics; ritual and religion; conflict and conflict resolution; and culture change, among others.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 212-3 Archaeology of the Old World This survey course focuses on human antiquity outside of the Americas. Temporally the course covers some two and a half million years of prehistory, beginning with the earliest known archaeological evidence in Africa, and ending with the great civilizations of Asia, Europe and Africa.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 213-3 Peoples and Cultures This course examines the diversity of human cultures and languages through the comparison of contemporary societies, and patterns of social organization.

Recommended: ANTH 102-3 Preclusions: ANTH 101-3

ANTH 214-3 Anthropology of Europe A survey of the anthropological literature of Europe, with a focus on selected cultures or regions. The course will discuss the methodology and paradigms of the area's ethnographic research.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 215-3 Anthropology of Canada A survey of the anthropological literature describing Canada, with a focus on selected cultures or regions. Examples relevant to northern peoples and issues will be used. The course will discuss the methodology and paradigms of the area's ethnographic research. This course will allow students to make inferences to analyze what is happening in their own community.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 217-3 Language and Culture This course provides an overview of the ways linguistic anthropology analyzes languages and communication. Topics may include: ethnolinguistics and ethnoscience; discourse analysis; and language use and language planning in the modern nation-state.

Precluded: ANTH 306-3 and 402-3 Recommended: ANTH 102-3

ANTH 220-3 Introduction to Primatology A survey of major issues in contemporary primatology, including origins and evolution, taxonomy, socioecology, mating systems, dominance, co-operative and coercive structures, intelligence and conservation.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 230-3 Introduction to Forensic Anthropology This course examines the contribution of anthropology to the recovery, identification and interpretation of recent human skeletal remains. Topics covered include forensic archaeology, methods of biological and personal identification, trauma and taphonomy, crime scene analysis, the anthropologist as an expert witness, war crimes, and mass graves.

Prerequisites: None Recommended: ANTH 102-3

ANTH 240-3 The Neandertals This course examines conceptions and misconceptions of the most enigmatic of our ancestors, the Neandertals. Since first discovered in 1848 Neandertals have occupied a special place in the story of human evolution - they have been pathologized, idealized, and romanticized. Neandertals have generated more controversy surrounding human evolution than any other ancestor. This course examines aspects of biology, culture, symbolic behaviour, and subsistence, considering Neandertal origins and 'disappearance,' as well as considering how Neandertals have been represented in 'popular culture' over the past 150 years.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 250-3 The Ancient Egyptians This course is a survey of the development and workings of ancient Egyptian state society. The course begins with the pre-Dynastic Period and ends with the Ptolemaic Period, but the major focus is on the Dynastic Period. Using a combination of archaeological and documentary evidence, the course examines ancient Egyptian history, politics, technology, cosmology, and other aspects of everyday life.

Prerequisites: None

Recommended: ANTH 102-3

ANTH 298-(3-6) Topics in Anthropology This course covers particular aspects of anthropology selected by the instructor. This course may be repeated for credit (maximum 6 credit hours) with permission of the Department Chair (permission to be given only when the subject matter differs substantially).

Prerequisites: None

Recommended: ANTH 102-3

ANTH 300-3 Methods in Social Anthropology Research design, data collection, statistics and analysis as used in social anthropology. The seminar will discuss field methods and use of archival materials.

Prerequisites: 60 credit hours or permission of the instructor

ANTH 301-3 Archaeological Lab Methods This course introduces students to laboratory methods used in archaeological analyses. Topics will include chipped and ground stone tools, fauna, bone tools, basketry, quantitative methods and more. Students will conduct research projects, and may have the opportunity to analyze artifacts from archaeological sites in BC and elsewhere.

Prereauisites: ANTH 205-3

ANTH 303-3 Archives, Texts, Museums, and Contemporary Communities Students will engage in projects in which they combine the use of archival, textual, museum and interview methodologies.

Prerequisites: Upper-division standing or permission of the instructor

ANTH 304-3 Kinship and Social Organization A review of the literature on kinship and social organization, and an examination of selected cases from various societies.

Prerequisites: Upper-division standing

Precluded: ANTH 408-3

ANTH 305-3 Circumpolar Ethnography A survey of the archaeological and ethnographic literature on the north, with a focus on selected cultures from Alaska, Northern Canada, Greenland, Northern Scandinavia and Northern Russia. The course will discuss the methodology and paradigms of the area's ethnographic research.

Prerequisites: None

Recommended: ANTH 102-3 or ANTH 213-3 Precluded: ANTH 208-3, NORS 321-3

ANTH 310-3 Applied Anthropology Theory in practice as it is understood by those who practice and advocate what many consider to be an entire sub field in anthropology: Applied Anthropology. The course will focus on the practice of anthropology using examples relevant to the northern world, and will consider issues associated with doing anthropology in difficult situations.

Prerequisites: Upper-division standing

Recommended: One of ANTH 200-3, ANTH 205-3 or ANTH 213-3

ANTH 311-3 Nutritional Anthropology This course undertakes a biocultural examination of the relationship between food (e.g., acquisition and avoidance; distribution; preparation), human health, and society in past and present populations. Lab exercises examine aspects of research methodology, including anthropometrics, dietetics and energetics.

Prerequisites: ANTH 200-3 or permission of the instructor Precluded: NURS 206-3, NURS 303-3, HHSC 311-3

ANTH 312-3 Human Adaptability This course will examine the genetic, epigenetic, and behavioural/cultural avenues used by humankind in adapting to environmental stresses associated with extreme habitats, (e.g., cold, heat, hypoxia). Human (mal-) adaption to post-industrial revolution urban conditions (e.g., crowding, noise, pollution) will also be addressed.

Prerequisites: ANTH 200-3 or permission of the instructor

ANTH 315-3 Anthropological Theory This course investigates the major theoretical trends in anthropology from the nineteenth century to the present. It will introduce central issues in anthropology theory, key concepts in the discipline, important authors and debates over theoretical perspectives.

Prerequisites: 60 credit hours

ANTH 316-3 The Social Theory and Structure of Contemporary Canadian Society — A consideration of basic themes, theories and concepts in advanced social thought as they relate to modern Canadian industrial society. Theories to be reviewed will include: functionalism, conflict theory, exchange theory and interactionist theory. These will be reviewed in relation to key issues impacting modern Canadian industrial societies, including: social inequality, ethnic and gender relations, the family, political and economic organization, work and occupations, community and region, the environment and utilization of natural resources, and social movements and social change.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3 or ANTH 213-3

ANTH 320-3 Biology of Circumpolar Peoples A lecture/seminar course exploring biological variability in contemporary circumpolar peoples, notably growth and development, morphology (size, shape and body composition) and physiology, within a framework of evolutionary ecology. Also addressed will be effects of culture change on, e.g., work capacity, nutritional adaptation, demography, and morbidity.

Prerequisites: ANTH 200-3

ANTH 325-3 Archaeological Theory Over the last three decades, there has been a tremendous explosion of literature concerning theory in archaeology. In this seminar course, students will learn about the historical contexts and development of the various theoretical schools that have contributed to our current state of knowledge. Weekly readings and seminar discussion will be mandatory.

Prerequisites: ANTH 205-3

ANTH 335-3 Archaeological Heritage Management In this lab-seminar course, weekly readings focus on topics relevant to archaeological heritage management, also known as Cultural Resource Management (CRM). Discussions will center on issues such as: heritage legislation in British Columbia and elsewhere, First Nations and private sector concerns, and archaeological consulting. Labs will focus on methodological issues such as survey techniques, culturally modified trees and more.

Prerequisites: ANTH 205-3

ANTH 380-(3-6) Topics in Archaeology This is an occasional course offering to enable existing or visiting faculty to teach courses not normally offered in the program. Each course reflects the geographic and topical interests of the instructor. This course may be repeated for credit (maximum 6 credit hours) with permission of the Department chair (permission to be given only when the subject matter differs substantially).

Prerequisites: Permission of the Department Chair

ANTH 400-3 Anthropological Theory This course surveys and critiques selected contemporary approaches to cultural and social theory.

Prerequisites: 60 credit hours or permission of the instructor

ANTH 401-3 Anthropological Perspectives on Inequality An examination of the embedding of inequality in cultural systems, and the intersection of categories such as race, class and gender in systems of hegemony; examples will be selected from a variety of cultural contexts.

Prerequisites: Upper-division standing or permission of the instructor Precluded: ANTH 309-3

ANTH 404-3 Comparative Study of Indigenous Peoples of the World A project-based seminar in which students will examine the similarities and differences of selected groups, focusing on issues such as relations with state societies, etc.

Prerequisites: ANTH 206-3, ANTH 208-3, or ANTH 211-3 or permission of the instructor

ANTH 405-3 Landscapes, Place and Culture This course provides an examination and critique of the anthropological approaches to landscape, space and place. Cross-cultural and cross-temporal case studies are used.

Prerequisites: Upper-division standing Precluded: ANTH 413-(3-6)

ANTH 406-3 Feminist Perspectives in Anthropology This course will survey and critique selected theoretical approaches and ethnographies to examine key area of interest and debate in the field of feminist anthropology. This course will draw from the political ideology in feminism concerned with critical examination of gender relations and cross-cultural anthropological study.

Prerequisites: Upper-division standing or permission of the instructor Precluded: ANTH 307-3

ANTH 407-3 British Columbia Ethnography This course is a comparative critique of contemporary ethnographic research of selected cultures or regions.

Prerequisites: Upper-division standing

Recommended: Prior course(s) in sociocultural anthropology

ANTH 409-3 British Columbia Archaeology This course is a problem-based seminar in which selected issues are examined from several points of view.

Prerequisites: One of ANTH 203-3, ANTH 205-3, ANTH 212-3, ANTH 301-3, ANTH 325-3, ANTH 380-(3-6) or permission of the instructor

ANTH 410-3 Theory of Nation and State A critical examination of theories of ethnicity, nationalism and statehood from an anthropological perspective.

Prerequisites: Upper-division standing

ANTH 411-(3-6) Topics in Biological Anthropology This course is a problem-oriented and project-based seminar in which one or more selected topics in biological anthropology are examined. This course may be repeated for credit (maximum 6 credit hours) with permission of the Department Chair (permission to be given only when the subject matter differs substantially).

Prerequisites: ANTH 200-3 or permission of the instructor

ANTH 413-(3-6) Environmental Anthropology This course is an examination of the anthropological literature on ecology and environmental practices in which contemporary issues and examples relevant to indigenous practices and northern peoples are developed.

Prerequisites: 60 credit hours or permission of the instructor

ANTH 414-3 Religion, Ideology, and Belief Systems This course provides a review of anthropological approaches to religion, ideology and belief systems with comparative examples from several cultures.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3 or ANTH 213-3

ANTH 415-3 Economic Anthropology This course is an introduction to the field of economic anthropology, looking at social and cultural contexts for processes of production, distribution, and consumption. Contemporary issues such as development will be explored.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3 or ANTH 213-3

ANTH 416-6 Archaeological Survey and Mapping Course participants will learn about archaeological survey, from both the academic perspective, and from the perspective of professional consulting archaeology. Students will become proficient at map reading, compassing, sampling strategies in forest and non-forest environments, and recognizing cultural features pertinent to the area. Participants will learn skills necessary for potential employment with professional archaeology firms; this will include observing protocols with First Nation communities and liaising with government and corporate entities. Where possible, students will have an opportunity to work for a few days with professional consultants.

Prerequisites: Permission of the instructor Co-requisites: ANTH 417-6 and ANTH 418-3

ANTH 417-(3-6) Excavation and Field Interpretation in

Excavation forms a central aspect of archaeology. As part of this course, students and community members will participate in a 6-8 week excavation of an archaeological locality. This will involve initial set up of the area, excavation and record-keeping, and basic field laboratory procedures. In addition to "hands-on" participation, daily seminar discussion will be mandatory; topics will centre on each day's survey and excavation results. These sessions will be interdisciplinary, reflecting the interests of the instructors, community members, visiting researchers and students. Topics will invariably focus on geomorphology, lithic artifacts, zooarchaeology, paleoethnobotany, paleoecology, oral traditions and traditional use, and the social context of conducting archaeology. The field school will often take place in remote localities in British Columbia and elsewhere, and so students may have to live in a field camp situation. In addition to basic tuition, there may be additional fees to cover camp and transportation costs.

Prerequisites: Permission of the instructor *Co-requisites:* ANTH 416-6 and ANTH 418-3

ANTH 418-3 Archaeology and First Nations This course introduces students to the value of ethnographic information (including oral history, place names documentation, traditional technology, subsistence, and traditional use activities), the interpretation of archaeological data, and construction of First Nations (pre)history. ANTH 418-3 is normally taken in conjunction with ANTH 416-6 and ANTH 417-(3-6).

Prerequisites: Permission of the instructor *Co-requisites:* ANTH 416-6 and ANTH 417-(3-6)

ANTH 419-3 Political and Legal Anthropology This course provides a comparative study of power; political organization; leadership; non-centralized and centralized political systems social control; and a cross-cultural study of law. Contemporary issues relevant to the north will be addressed, for example self government and sovereignty.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3 or ANTH 213-3

ANTH 420-3 Races, Racism, and Human Biology This seminar course investigates the biological basis of human diversity and difference. It deals with the origin and mechanisms of human population variation, the nature of racial and racist studies in both historical and social context, and the question of race as a valid subject of scientific inquiry.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3

ANTH 421-(3-6) Ethnographic Field Methods A project-based seminar in which students will actualize field methods in ethnographic research, in addition to closely examining questions of ethical research and community participation in ethnographic research. This course consists of at least three weeks of classroom instruction in a field location and will emphasize the actualization of conventional ethnographic methods and procedures in an actual field setting. Students will be expected to participate in a larger field project and to gain direct experience in field methods while being sensitized to the requirements of ethical research and community involvement in ethnography.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3 or ANTH 213-3

ANTH 422-(3-6) Ethnographic Research Project A project-based course in which students shall examine and compare selected aspects of cultures and peoples before integrating this acquired knowledge to design and carry out a major research project arising from the field experience. The ethnographic material covered shall be appropriate to the field school's locality and/or general research topic.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3 or ANTH 213-3

ANTH 423-3 Urban Anthropology This course provides a review of the anthropological approaches to and the social theory of contemporary urban society in the local, national and global contexts of the modern world. Contemporary issues relevant to the North will be addressed.

Prerequisites: 60 credit hours or permission of the instructor Recommended: ANTH 102-3 or ANTH 213-3

ANTH 425-3 Introduction to Zooarchaeology This lab course introduces students to the study of animal bones found in archaeological contexts. The first part of the course focuses on animal bone identification, while the second part centers on theoretical aspects of animal use by pre-Industrial human societies. As part of the course, students may have to prepare animal skeletons.

Prerequisites: ANTH 301-3 or permission of the instructor

ANTH 430-3 Stone Tools in Archaeology Stone tools are the most ubiquitous type of artifacts found around the world. This lab-seminar course focuses on methods and techniques for analyzing stone tools, and includes a strong theoretical component on stone tool production and use in pre-Industrial societies. Weekly labs will focus on analytical procedures, and in addition students are expected to complete assigned readings and participate in discussions.

Prerequisites: ANTH 301-3 or permission of the instructor

ANTH 440-(3-6) Internship

Prerequisites: Upper-division standing and permission of the Department Chair

ANTH 450-(3-6) Undergraduate Thesis in Anthropology

Prerequisites: Upper-division standing and permission of the Department Chair

ANTH 451-3 Traditional Use Studies An advanced seminar on traditional use studies, their use, application, and development. The seminar will examine the origins and development of this field, review case studies and recent applications, and contemporary policies.

Prerequisites: 60 credit hours or permission of instructor Recommended: ANTH 102-3 or ANTH 213-3 Precluded: FNST 451-3

ANTH 460-3 Anthropology Capstone This course engages students in the contemporary methodological and theoretical debates, and ideological challenges that face anthropologists today. Topics range from ethical considerations over the construction and ownership of knowledge to the practical challenges of how to set up a field/research project. This course prepares students to work within this ever-changing discipline through reinforcing the interlinked nature of sociocultural, biological and archaeological inquiry. Using an integrative approach, this course illustrates how our diverse theory, methods and practice may work together to challenge established rhetoric and create innovative ideas about the past, present and future.

Prerequisites: Student must be major, minor or joint major in Anthropology with 90 credit hours

ANTH 498-(3-6) Special Topics in Anthropology

Prerequisites: Upper-division standing and permission of the Department Chair

ANTH 499-(3-6) Independent Study

Prerequisites: Upper-division standing and permission of the Department Chair

ANTH 500-3 Method and Theory Seminar An examination of current developments within the subdiscipline in which the student is taking the honour's program. Developed in consultation with and supervised by a member of the Anthropology faculty, the aim is as much to explore where linkages do and do not exist across Anthropology's subdisciplines as it is to understand the state-of-the-art of the chosen subdiscipline. The course will conclude with a seminar discussion developed and directed by the student, open to all Anthropology faculty and the student's peers.

Prerequisites: Admission to the Honours Program

ANTH 501-3 Research Prospectus In consultation with the supervisor, the student will design an original research project which will form the core of the Honour's thesis. The design will be presented as a colloquium open to the university community.

Prerequisites: ANTH 500-3 or permission of the Department Chair

ANTH 502-3 Honours Thesis In accordance with the program guidelines for thesis projects, the student will present the results of their project in a paper of 12,500 – 15,000 words, to be evaluated by the thesis supervisor and an outside reader. Successful completion of the Honours thesis course will be based on the quality of the written work, as well as an oral defense open to the university community.

Prerequisites: ANTH 501-3

Arts (ARTS)

Northern Advancement program students are required to take these courses and so have priority for registration. Any spaces remaining may be filled by other students.

ARTS 101-3 Learning Strategies This course helps students identify their strengths and weaknesses as learners, master essential academic learning strategies, identify appropriate career goals and majors, and make a successful transition to university.

Prerequisites: Fewer than 30 credit hours or permission of Program Dean/Regional Chair

Precluded: CORE 100-3, NRES 100-3

ARTS 102-3 Research Writing This course complements ARTS 101-3 and focuses primarily on skills associated with effective research writing techniques. The course also focuses on the knowledge and skills necessary for the productions of university-level, library-based research papers. Using the library, mastering computers, reviewing grammar, and presenting findings orally are integral components of the process.

Prerequisites: Fewer than 30 credit hours or permission of Program Dean/Regional Chair

Precluded: CORE 100-3, NRES 100-3

Astronomy (ASTR)

Astronomy courses are designed as general interest courses accessible to students in any degree program, and are particularly suited to meet the science component of the UNBC breadth requirements. These courses are part of the Physics department offerings.

ASTR 120-3 Introduction to Astronomy I: The Solar System

This is a one-semester introductory course in Astronomy that is general enough to be of interest to science and non-science majors with a proper background in mathematics. This course is complementary to ASTR 21-3. Topics include: an overview of our solar system; the Sun; Earth and Moon; the inner planets: Mercury, Venus, and Mars; the gas giants: Jupiter, Saturn, Uranus, and Neptune; moons and ring structure of the gas giants; Pluto and Charon; asteroids, comets, meteors, and meteorites; the origin and evolution of our solar system; the origin and evolution of the sun; other solar systems and exoplanets. ASTR 120 and ASTR 121 may be taken in either order.

Prerequisites: Principles of Math 11 or Pre-calculus 11 or Foundations of Mathematics 11

Prerluded: PHYS 120-3

ASTR 121-3 Introduction to Astronomy II: The Universe This is a one-semester introductory course in Astronomy that is general enough to be of interest to science and non-science majors with a proper background in mathematics. This course is complementary to ASTR 120-3. Topics include: the origins of stars and planetary systems; the sun; properties and structures of stars; stellar interiors; the evolution of stars; stellar remnants; white dwarfs; neutron stars; black holes, worm holes and warped spacetime; the Milky Way; the universe of galaxies; distance scales and indicators; active galaxies and quasars; cosmology: past, present, and future of the universe, "Is 'Anyone' Out There?". ASTR 121 and ASTR 120 may be taken in either order.

Prerequisites: Principles of Math 11 or Pre-calculus 11 or Foundations of Mathematics 11

Precluded: PHYS 121-3

Biochemistry and Molecular Biology (BCMB)

BCMB 255-2 Biochemistry Lab I This is a laboratory-based course in which students explore basic biochemical and molecular biological laboratory techniques. Topics include buffers, calculations in biochemistry, enzyme kinetics, and purification of carbohydrates and proteins. Techniques include centrifugation, chromatography, spectrophotometry, and electrophoresis.

Prerequisites: CHEM 201-3 Co-requisites: CHEM 204-3 Precluded: CHEM 255-1

BCMB 306-3 Intermediary Metabolism This lecture-based course that emphasizes the importance of biochemical pathways and macromolecules in physiological systems. The goal of the course is to impart an understanding of metabolism on a cellular scale and the macroscopic implications of impairments in the metabolic pathways. Topics include the metabolism of amino acids, lipids, carbohydrates, nucleotides and how these pathways are interrelated at tissue and organ levels.

Prerequisites: CHEM 204-3 with a minimum grade of C Precluded: CHEM 306-3

BCMB 308-3 Biochemistry Lab II This laboratory-based course covers modern biochemical and molecular biological techniques. Topics include purification and characterization of proteins, DNA and RNA. Laboratory techniques include centrifugation, chromatography, enzyme spectrophotometry, gel electrophoresis of DNA, RNA and proteins, restriction endonuclease digestion and analysis, Western blotting, IMAC and ELISA.

 $\it Prerequisites:$ CHEM 255-1 or BCMB 255-1 and either CHEM 204-3 or CHEM 220-3 with a minimum grade of C

BCMB 340-3 Physical Biochemistry This lecture-based course allows students to explore the physical basis of biochemistry through in-depth study of some of the most important biochemical phenomena in nature. The concepts of entropy, enthalpy, and equilibria are discussed in the context of repressor function, photosynthesis, and ATP synthesis. Other topics include the physical basis of biochemical techniques such as centrifugation, electrophoresis, and spectroscopy.

Prerequisites: PHYS 101 or PHYS 111, and CHEM 204-3 with a minimum grade of C

Co-requisites: CHEM 255-1 or BCMB 255-1 Precluded: CHEM 230-3, CHEM 340-3

BCMB 401-3 Basic Science of Oncology This is a lecture-based course designed to provide insight into the biological chemistry of cancer. Major topics include chemical carcinogenesis, genomic instability, oncogenes and tumor suppressor genes, cell growth, apoptosis, tumor progression and metastasis, tumor angiogenesis, hormones, viruses, and drug resistance. This course also provides an in-depth look at the advanced technology used in controlling the disease, including immunotherapy and therapeutic approaches for controlling gene expression.

Prerequisites: BIOL 311-3 with a minimum grade of C Precluded: CHEM 405-3

BCMB 402-3 Macromolecular Structure This is a lecture-based course designed to provide students with an understanding of the theory behind structural techniques used in biochemical laboratories. Topics include X-ray crystallography, nuclear magnetic resonance spectroscopy and electron microscopy; students are expected to develop an understanding of the theory and application of these techniques and technical considerations. Students also learn how to judge the quality of data.

Prerequisites: CHEM 204-3 with a minimum grade C Precluded: CHEM 405-3

BCMB 403-3 Advanced Nucleic Acids This is a lecture-based course designed to provide in-depth knowledge on advanced topics in nucleic acid biochemistry. Topics include mechanistic analysis of nucleic acid metabolism; the RNA world hypothesis and theories of the origin of life; epigenetics; specificity and role of polymerases and repair pathways; replication and recombination mechanisms; RNA structural motifs and physical processing in gene expression; structure and function of non-coding RNA; silencing and micro RNA; catalytic

RNA molecules; and technological applications of RNA. *Prerequisites:* CHEM 204-3 with a minimum grade C *Precluded:* CHEM 405-3

BCMB 404-3 Proteins and Enzymology This lecture-based course provides knowledge of contemporary protein biochemistry and emphasizes the importance and role of enzymes in biochemistry and molecular biology. Topics include the structure and function of proteins, protein biotechnology, mechanisms of enzyme action, kinetic analysis of enzymes and regulation of protein activity.

Prerequisites: CHEM 204-3 with a minimum grade C Precluded: BCMB 409-3

BCMB 405-3 Topics in Biochemistry and Molecular

Biology This course considers selected advanced topics in biochemistry. Topics depend on instructor and student interest and normally focus on material not dealt with in other courses. Note: Credit may be granted for both 400- and 600-level offerings of Topics in Biochemistry and Molecular Biology courses, and either the 400- or 600-level courses or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

Prerequisites: BCMB 340-3 with a minimum grade C

BCMB 430-6 Undergraduate Thesis This is a laboratory-based undergraduate research thesis, designed for students with serious research interests. This course includes an oral presentation of research results. Students must have completed at least 90 credit hours of study and be BCMB major. The thesis may be taken over one or two semesters.

Prerequisites: 90 credit hours, BCMB major, and permission of the instructor

BCMB 499-(1-6) Independent Study This course concentrates on a particular topic agreed upon by the student and a member of the BCMB faculty. It may be repeated to a maximum of six credit hours. Credit may be granted for both 400- and 600-level offerings of the course provided the content is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: Permission of the Program Chair

Biology (BIOL)

BIOL 103-3 Introductory Biology I This lecture-based course is an introduction to the biological sciences including the nature of life, cell structure, function, development, metabolism, genetics and evolutionary theory.

Prerequisites: Biology 11 or Biology 12 Precluded: BIOL 100-4, BIOL 101-4

BIOL 104-3 Introductory Biology II This lecture-based course is a survey of living organisms, plant and animal form and function, ecology and population biology.

Prerequisites: Biology 11 or Biology 12 or BIOL 103-3

Precluded: BIOL 100-4, BIOL 102-4 Recommended: BIOL 103-3

BIOL 110-3 Introductory Ecology This course is designed to introduce non-science majors to ecological systems. Principles of ecology, biotic and abiotic conditions, population, community and ecosystem structure, human impacts on these systems, and basic concepts of conservation and preservation of ecosystems.

Prerequisites: None Precluded: BIOL 201-3

BIOL 111-1 Introductory Ecology Laboratory This laboratory course complements BIOL 110-3 Introductory Ecology and provides field and laboratory experience in introductory ecological sciences.

Co-requisites: BIOL 110-3

BIOL 123-1 Introductory Biology I Laboratory
based course introduces students to techniques in the biological
sciences, closely following the lecutre organization in BIOL 103-3.
Students normally take this course concurrently with BIOL 103-3 as
the lab component complements the lecture, but should check the
revlevant program requirements to see if the lab is required. (Note:
not all the programs require both the lecture and lab components.)

Prerequisites or Co-requisites: BIOL 103-3 Precluded: BIOL 100-4, BIOL 101-4 **BIOL 124-1 Introductory Biology II Laboratory** This laboratory-based course introduces students to plant and animal diversity, form and functions and ecologoical relationships among organiisms, closly following the lecture organization in BIOL 104-3. Students normally take this course concurrently with BIOL 104-3 as the lab components complements the lecture, but should check the relevant program requirements to see if the lab is required. (Note: not all programs require both the lecture and lab components.)

Prerequisites or Co-requisites: BIOL 104-3 Precluded: BIOL 100-4, BIOL 102-4

BIOL 201-3 Ecology This course provides students with an understanding of the relationship of the environment to organisms, principles of animal and plant ecology, populations, communities, ecosystems and human ecology.

Prerequisite: BIOL 102-4, or BIOL 104-3 and BIOL 124-1 Prerequisite or co-requisite: BIOL 101-4 or BIOL 103-3 and BIOL 123-1

BIOL 202-3 Invertebrate Zoology Systematics, development and evolution of the invertebrates.

Prerequisites: BIOL 101-4, or BIOL 103-3 and BIOL 123-1; and BIOL 102-4 or BIOL 104-3 and BIOL 124-1

BIOL 203-3 Microbiology This course introduces students to the classification and biology of prokaryotic and eukaryotic microorganisms, and applications to forestry, agriculture, environmental science, medicine and industry. In the laboratory, students will learn techniques for culturing and characterizing micro-organisms.

Prerequisites: BIOL 101-4 or BIOL 103-3 and BIOL 123-1; and BIOL 102-4, or BIOL 104-3 and BIOL 124-1

Recommended: BIOL 210-3 and at least one of CHEM 201-3, CHEM 204-3, or CHEM 220-3 (may be taken concurrently)

BIOL 204-3 Plant Biology This course focuses on the interrelationships between form and function of the living plant, including systematics, development, physiology and evolution.

Prerequisites: BIOL 101-4 or BIOL 103-3 and BIOL 123-1; and BIOL 102-4 or BIOL 104-3 and BIOL 124-1

BIOL 210-3 Genetics This course emphasizes principles of both modern and classical genetics.

Prerequisites: BIOL 101-4 or BIOL 103-3 and BIOL 123-1
Prerequisite or Co-requisite: BIOL 102-4 or BIOL 104-3 and BIOL 124-1

BIOL 301-3 Systematic Botany This course introduces students to plant taxonomy and biodiversity, including principles of systematic botany, nomenclature and classification. Special attention is given to the identification of the native regional flora. Students contemplating registration in this course should consult with the instructor before the end of the previous spring term regarding the making of a summer collection for study during the course. This course includes scheduled field trips as a required course component.

Prerequisites: BIOL 101-4 or BIOL 103-3 and BIOL 123-1; and BIOL 102-4 or BIOL 104-3 and BIOL 124-1

BIOL 302-3 Limnology Ecology of aquatic systems, their chemical, physical and biological characteristics.

Prerequisites: BIOL 201-3

BIOL 304-3 Plants, Society and the Environment This course explores the interactions between plants and humans, and how plants and their essential services are altered by human activities and the environment. Lectures and labs permit student-driven exploration of how plants, society and the environment are integrated. Students will investigate the underlying mechanisms of plant function and adaptation to address present-day environmental issues such as rising greenhouse gas concentrations, disturbance events, and biological invasions.

Prerequisites: BIOL 204-3 or permission of the instructor

BIOL 307-3 Ichthyology and Herpetology This course focuses on the identification, comparative anatomy and evolution of fishes, amphibians and reptiles. Particular reference is made to species endemic to British Columbia.

Prerequisites: BIOL 101-4 or BIOL 103-3 and BIOL 123-1; and BIOL 102-4 or BIOL 104-3 and BIOL 124-1

BIOL 308-3 Ornithology and Mammalogy This course focuses on the identification, comparative anatomy and evolution of birds and mammals. Particular reference is made to species endemic to British Columbia.

Prerequisites: BIOL 101-4 or BIOL 103-3 and BIOL 123-1; and BIOL 102-4 or BIOL 104-3 and BIOL 124-1

BIOL 311-3 Cell and Molecular Biology Cellular structure and function, molecular genetics, genome organization, and gene regulation in eukaryotic and prokaryotic organisms.

Prerequisites: BIOL 210-3 and one of CHEM 204-3 or CHEM 220-3

BIOL 312-3 Molecular Cell Physiology This course examines the molecular basis of cellular processes from cell-division to cell signalling, cell and tissue interactions, cellular mechanisms of development, cell differentiation, and the immune system.

Prerequisites: BIOL 311-3 Precluded: BIOL424-3

BIOL 315-3 Animal Diseases and Parasites Biological aspects of infectious diseases, parasites and environmental contaminants in wild vertebrate animal populations.

Prerequisites: one of BIOL 307-3 or BIOL 308-3

BIOL 318-3 Fungi and Lichens This course uses lectures, field and laboratory exercises to introduce students to the diversity of the Fungal Kingdom, including lichenized fungi. Students learn to recognize fungal and lichen structures and identify taxa. Emphasis is placed upon fungi and lichens in their natural environments, their ecology and physiology, and their importance to ecosystem function. Field trips and labs teach students to collect, isolate and identify fungi and lichens.

Prerequisites: BIOL 101-4 or BIOL 103-3 and BIOL 123-1; and BIOL 102-4 or BIOL 104-3 and BIOL 124-1

BIOL 321-3 Animal Physiology Basic animal functions and physiology. Operation and integration of major life support and reproductive systems, with emphasis on vertebrates.

Prerequisites: one of BIOL 307-3 or BIOL 308-3

BIOL 322-3 Entomology Diversity, structure, function, evolution, behaviour and importance of insects. Students intending to take the course should contact the instructor as early as possible for information and materials regarding the required insect collection.

Prerequisites: BIOL 202-3 or FSTY 307-4 or permission of the

instructor

Precluded: BIOL 422-3

BIOL 323-3 Evolutionary Biology This course covers the mechanisms and processes of evolution of biological organisms. It discusses the evolutionary principles from Darwinism to molecular evolution.

Prerequisites: BIOL 201-3 and BIOL 210-3

Precluded: BIOL 403-3

BIOL 325-3 Ecological Analyses This course is an introduction to the application of analytical methods for addressing common ecological problems. Particular emphasis is placed on: sampling design, formulating hypotheses, statistical inference and the writing of abstracts. Students learn to analyze data by applying the scientific method to ecological research.

Prerequisites: BIOL 201-3 and STAT 240-3

BIOL 333-3 Field School This is an experiential course designed for students to focus on theoretical and practical skills involved in the field. Each field school is designed to incorporate the theories, models and other concepts introduced in the classroom and bring them into greater clarity by examining them in a real world setting. This course may be repeated with the permission of the instructor if the subject matter and course location differ substantially.

Prerequisites: Permission of the instructor

BIOL 350-3 Ethnobotany Native uses of indigenous plants.

Prerequisites: None

BIOL 402-3 Aquatic Plants Classification, physiology, ecology, and environmental implications of aquatic plants. Both marine and freshwater systems are covered with emphasis on the aquatic plants of British Columbia.

Prerequisites: BIOL 204-3 or permission of the instructor

BIOL 404-3 Plant Ecology The ecology of terrestrial plants and ecosystems. Structure, function, classification, and analytical tools for describing the dynamic behaviour of plant communities.

Prerequisites: BIOL 201-3 or BIOL 204-3

BIOL 406-3 Fish Ecology The general life history, ecology, zoogeography and habitats of freshwater, anadromous and marine fishes.

Prerequisites: BIOL 201-3 and BIOL 307-3

BIOL 410-3 Population and Community Ecology This course is an advanced treatment of population and community ecology including theoretical and applied aspects of structure and dynamics.

Prerequisites: BIOL 325-3

BIOL 411-3 Conservation Biology This course provides a broad exposure to the theory and techniques necessary for understanding and preventing threats and declines to biological diversity. The science and application of conservation biology draw from a wide range of disciplines; thus, course and lab materials integrate perspectives from both the natural and social sciences. Students are advised to take this course in their final year of studies.

Prerequisites: BIOL 201-3

BIOL 412-3 Wildlife Ecology The general ecology and biology of wildlife species, including physiology, behaviour, nutrition and endocrinology.

Prerequisites: BIOL 201-3 and BIOL 308-3

BIOL 413-3 Wildlife Management Management criteria for reptiles, amphibians, birds and mammals. Emphasis on the socioeconomic aspects of management. Communication processes are addressed.

Prerequisites: BIOL 410-3 and BIOL 412-3

Recommended: NREM 204-3

BIOL 414-3 Fisheries Management Management of freshwater and anadromous fishes of British Columbia.

Prerequisites: BIOL 406-3 Recommended: NREM 204-3

BIOL 420-3 Animal Behaviour Adaptive significance and evolutionary basis of behaviour patterns exhibited by the major animal phyla.

Prerequisites: One of BIOL 202-3, BIOL 307-3, or BIOL 308-3

BIOL 421-3 Insects, Fungi and Society This course focuses on the historical, social and economic importance of insects and fungi to human society, including underlying biological and ecological principles.

Prerequisites: 60 credit hours which includes BIOL 101-4 or BIOL 103-3 and BIOL 123-1; and BIOL 102-4, or BIOL 104-3 and BIOL 124-1, or permission of the instructor

BIOL 423-3 Molecular Evolution and Ecology This course is lecture and laboratory based and focuses on the evolution of macromolecules, the reconstruction of the evolutionary history of species, populations, or genes, and the use of genetic information to gain insights into the ecology of species.

Prerequisites: BIOL 323-3

BIOL 425-3 Applied Genetics and Biotechnology This course provides an introduction to advanced genetic laboratory techniques and processes. Lectures cover applications of genetic techniques and biotechnology as well as ethical issues regarding the use of these technologies. Specific topics include: animal forensics, recombinant and transgenic theory, genomics/bioinformatics, biotechnology and molecular ecology.

Prerequisites: BIOL 311-3

Recommended: BCMB 308-3 and BIOL 423-3

BIOL 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

BIOL 498-(3-6) Special Topics This course covers selected biological topics and may be repeated for credit (maximum 6 credit hours).

Prerequisites: Permission of the instructor and Chair

BIOL 499-(1-6) Independent Study May be repeated for credit (maximum six credit hours).

Chemistry (CHEM)

CHEM 100-3 General Chemistry I This is the first course in a two-course lecture-based sequence of chemistry courses emphasizing the basic principles of chemistry. Topics include: classification of matter, periodic properties of elements, atomic and molecular structure, stoichiometry, chemical reactions, thermochemistry, chemical bonding and an introduction to organic chemistry. Students requiring the first year laboratory courses in their program of study are encouraged to enroll in CHEM 120-1 concurrently.

Prerequisites: Principles of Math 12 or Pre-calculus 12 or MATH 115-3 (or equivalent). Note: MATH 115-3 may be taken concurrently

CHEM 101-3 General Chemistry II This is the second course in a two-course lecture-based sequence of chemistry courses emphasizing the basic principles of chemistry. Topics include: intermolecular forces, properties of solutions, reaction kinetics, chemical equilibrium, acids and bases, applications of aqueous equilibria, entropy and free energy, electrochemistry, and organic chemistry. Students requiring the first-year laboratory courses in their program of study are encouraged to enroll in CHEM 121-1 concurrently.

Prerequisites: CHEM 100-3; and Principles of Math 12 or Pre-calculus 12 or MATH 115-3 (or equivalent)

CHEM 110-3 Chemistry of Everyday Life A lecture-based chemistry course for non-science majors which presents the chemistry of substances of our everyday world and discusses real-world societal issues that have important chemistry components. Environmentally relevant topics including the ozone layer and its depletion, global warming, and acid rain will be studied. The use of energy in our society in its various forms will be looked at from a chemical perspective. The importance and implications of using man made materials and drugs will be discussed. A discussion of these topics will give students a fundamental background in chemistry, and allow them to better understand issues of relevance to our modern industrial society.

Prerequisites: None

CHEM 120-1 General Chemistry Lab I A laboratory course designed to accompany CHEM 100-3 and introduce basic chemistry laboratory procedures. Experiments will be performed which complement the material presented in CHEM 100-3.

Prerequisites: CHEM 100-3 (may be taken concurrently)

CHEM 121-1 General Chemistry Lab II A laboratory course designed to accompany CHEM 101-3 and introduce basic chemistry laboratory procedures. Experiments will be performed which complement the material presented in CHEM 101-3.

Prerequisites: CHEM 101-3 (may be taken concurrently), CHEM 120-1

CHEM 200-3 Physical Chemistry I Fundamental concepts of classical thermodynamics, thermochemistry, chemical and phase equilibria.

Prerequisites: CHEM 101-3, CHEM 121-1, MATH 101-3 or permission of instructor

CHEM 201-3 Organic Chemistry I A lecture based course providing an introduction to the structure, nomenclature, classification, properties and reactions of the major functional groups of organic compounds. Examples of the syntheses and the reactions of the major functional groups will be given, supported by reaction mechanisms where appropriate. Students requiring the second year Organic Chemistry laboratory courses in their program of study are encouraged to enroll in CHEM 250-1 concurrently.

Prerequisites: CHEM 101-3, 121-1 or permission of instructor

CHEM 202-3 Inorganic Chemistry I An introductory course in inorganic chemistry, focusing on structure and bonding, crystal field and molecular orbital theory and the chemistry of the main group.

Prerequisites: CHEM 101-3, CHEM 121-1 or permission of the instructor

CHEM 203-3 Organic Chemistry II A continuation of the topics covered in CHEM 201-3, with emphasis on the mechanistic aspect of organic chemical reactions. Students requiring the second year Organic Chemistry laboratory courses in their program of study are encouraged to enroll in CHEM 251-1 concurrently.

Prerequisites: CHEM 201-3

CHEM 204-3 Introductory Biochemistry This lecture-based course introduces the basic principles of biological chemistry, focusing on the structure, composition and role of proteins, nucleic acids, carbohydrates and lipids in living systems. Other major topics include the nature and functions of enzymes, principles of bioenergetics and the energy-trapping metabolic pathways and their regulation in animals and plants.

Prerequisites: CHEM 201-3; BIOL 101-4, or BIOL 103-3 and BIOL 123-1; and BIOL 102-4, or BIOL 104-3 and BIOL 124-1 Co-requisites: CHEM 203-3

CHEM 210-3 Analytical Chemistry I This is a laboratory course (two hours of lecture and three hours of laboratory per week) designed to introduce the discipline of analytical chemistry. Topics include data handling (basic statistics, use of spreadsheets, graphing techniques), electronic spectroscopy (UV-Vis, fluorescence, AA, ICP) and separation techniques (column chromatography, TLC, HPLC, GC).

Prerequisites: CHEM 101-3 and CHEM 121-1

CHEM 220-3 Organic and Biochemistry A lecture based course designed to present an introductory sequence of organic chemistry and biochemistry. An understanding of organic chemistry is required to properly understand biochemistry. This course treats organic chemistry in enough depth to make biochemistry understandable.

Prerequisites: CHEM 101-3

Precluded: Students may not take 220-3 if they have previously taken

CHEM 201-3, CHEM 203-3 or CHEM 204-3

CHEM 221-1 Organic and Biochemistry Lab A laboratory based course designed to accompany and complement CHEM 220-3. This course will introduce common laboratory techniques as well as introduce some of the properties and reactions of organic and biochemical compounds.

Prerequisites: CHEM 121-1 Co-requisites: CHEM 220-3

CHEM 250-1 Organic Chemistry Lab I A laboratory based course providing an introduction to the techniques used in organic chemistry.

Prerequisites: CHEM 201-3 (may be taken concurrently)

CHEM 251-1 Organic Chemistry Lab II A laboratory based course focusing on the practical aspects of organic chemistry.

Prerequisites: CHEM 203-3 (may be taken concurrently, CHEM 250-1)

CHEM 300-3 Physical Chemistry II Fundamental concepts in statistical mechanics, reaction theory, chemical kinetics and surface chemistry.

Prerequisites: CHEM 200-3 and MATH 101-3

CHEM 301-3 Advanced Organic Chemistry I An advanced course emphasizing the structural, physical and mechanistic aspects of organic reactions.

Prerequisites: CHEM 203-3

CHEM 302-4 Environmental Chemistry I This course examines the chemistry of the environment, including considerations of the physical processes in the air, soil and water and the influence, monitoring, and removal of pollutants from the environment.

Prerequisites: At least 3 credit hours of chemistry at the second-year level or beyond. CHEM 200-3 is strongly recommended

CHEM 303-3 Quantum Chemistry This course covers techniques of quantum mechanics and their application to problems relevant to chemistry. Methods such as the variation method, perturbation theory, and Hartree-Fock Self-Consistent Field theory, are applied to simple chemical systems. The extension of these to more complex systems is explored.

Prerequisites: PHYS 205-3 and CHEM 200-3 Precluded: PHYS 302-3

CHEM 304-3 Advanced Organic Chemistry II An advanced course studying modern methods in synthetic organic chemistry.

Prerequisites: CHEM 203-3

CHEM 305-3 Physical Chemistry III Fundamental concepts of quantum mechanics and spectroscopy.

Prerequisites: CHEM 200-3 and MATH 101-3

CHEM 310-3 Analytical Chemistry II A laboratory course (two hours of lecture and three hours of laboratory per week) designed as a sequel to CHEM 210-3. Topics include functional group identification in organic and inorganic molecules (IR spectroscopy), mass spectrometry and NMR spectroscopy. An emphasis is placed on the structural elucidation of molecules.

Prerequisites: CHEM 203-3 and CHEM 210-3

CHEM 311-3 Analytical Chemistry III A laboratory course (two hours of lecture and three hours of laboratory per week) designed to augment CHEM 210-3 and CHEM 310-3. Topics include pH and ion specific electrodes, electrochemical methods and crystallography.

Prerequisites: CHEM 203-3 and CHEM 210-3

CHEM 312-3 Organic Chemistry Lab III A laboratory based course (one hour lecture, six hour lab) teaching the various techniques used in modern organic chemistry, with an emphasis on synthetic methods. This course is designed to complement the material taught in CHEM 301-3 and 304-3.

Prerequisites: one of CHEM 301-3 or CHEM 304-3

CHEM 315-3 Physical Chemistry Lab This is a laboratory course in physical chemistry consisting of six hours of laboratory work weekly. The course covers the fundamental aspects of physical chemistry such as spectroscopy, thermodynamics, equilibrium, and kinetics.

Prerequisites: CHEM 200-3

Precluded: CHEM 313-1.5 and CHEM 314-1.5

CHEM 315-3 Physical Chemistry Lab This is a laboratory course in physical chemistry consisting of six hours of laboratory work weekly. The course covers the fundamental aspects of physical chemistry such as spectroscopy, thermodynamics, equilibrium, and kinetics.

Prerequisites: CHEM 200-3

Precluded: CHEM 313-1.5 and CHEM 314-1.5

CHEM 320-3 Inorganic Chemistry II This lecture-based course is focused on symmetry and group theory, along with the organometallic chemistry of the transition elements.

Prerequisites: CHEM 202-3

CHEM 321-3 Inorganic Chemistry III This lecture-based course is focused on the general chemical principles within transition elements, along with their descriptive chemistry. Bio-Inorganic Chemistry is also examined.

Prerequisites: CHEM 202-3

CHEM 322-3 Inorganic Chemistry Lab A laboratory-based course (one hour lecture, six hour lab) examining the descriptive side of modern inorganic chemistry, including organometallic and bioinorganic chemistry. This course will provide both general and specific laboratory skills.

Prerequisites: CHEM 202-3

CHEM 400-3 Topics in Environmental ChemistryThis course considers advanced and selected topics in chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400- and 600-level offerings of Topics in Chemistry courses, and either the 400- or 600-level offerings or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

Prerequisites: CHEM 302-4

CHEM 401-3 Chemistry Seminar A workshop-based course emphasizing oral and written communication in the sciences. Topics include preparation of visuals, lecture and seminar presentation, scientific writing (including grant applications and scientific articles).

Prerequisites: Upper-division standing in a science program and permission of the Instructor

CHEM 402-3 Topics in Organic Chemistry This course considers advanced and selected topics in organic chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

Prerequisites: one of CHEM 301-3 or CHEM 304-3

CHEM 403-3 Topics in Inorganic ChemistryThis course considers advanced and selected topics in inorganic chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

Prerequisites: one of CHEM 320-3 or CHEM 321-3

CHEM 404-3 Topics in Physical Chemistry This course considers advanced and selected topics in physical chemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

Prerequisites: one of CHEM 300-3 or CHEM 305-3

CHEM 405-3 Topics in Biochemistry This course considers advanced and selected topics in biochemistry. Topics depend on instructor and student interest and normally focus on advanced material not dealt with in other courses. Note: Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may be repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

Prerequisites: CHEM 330-3 Co-requisites: CHEM 307-3 **CHEM 406-3 Advanced Laboratory I** The two courses, CHEM 406-3 and 407-3, are intended to act as capstone lab courses, providing experience with a wide variety of advanced synthetic, analytical and physical techniques. The courses are taken separately but a common set of experiments will be available throughout.

Prerequisites: Permission of instructor

CHEM 407-3 Advanced Laboratory II The two courses, CHEM 406-3 and 407-3, are intended to act as capstone lab courses, providing experience with a wide variety of advanced synthetic, analytical and physical techniques. The courses are taken separately but a common set of experiments will be available throughout.

Prerequisites: CHEM 406-3

CHEM 408-3 Environmental Chemistry II An advanced treatment of selected topics in environmental chemistry. Credit may be granted for both 400 and 600 level offerings of the course provided the content is sufficiently different (as determined by the Program Chair or Dean)

Prerequisites: CHEM 302-4

CHEM 410-3 Topics in Analytical ChemistryThis course provides an advanced treatment of selected topics in analytical chemistry such as spectroscopy, separation technology and analytical instrumentation. Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, and either the 400 or 600 level or a combination of both may e repeated to a maximum of 6 credit hours, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or College Dean).

Prerequisites: CHEM 310-3

CHEM 430-6 Undergraduate Thesis In this course students pursue an independent research project under the direct supervision of a faculty member. Students are expected to design and implement a research methodology, analyze data, and present findings in thesis format. The final grade in this course is based in part on a written research proposal, a written thesis, a public presentation of research results, and the evaluation of the thesis by a second reader. The thesis is normally completed over the September and January semesters.

Prerequisites: Acceptance into Honours in Chemistry, completion of at least 90 credit hours of study including all lower-division degree requirements, and permission of an Academic Supervisor and the Program Chair

CHEM 499-(1-6) Independent Study This course concentrates on particular topics agreed upon by the student and a member of the Chemistry faculty. It may be repeated for a maximum of six credit hours. Credit may be granted for both 400- and 600-level offerings of the course provided the content is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: Permission of the Program Chair

School of Business (COMM)

Registration priority in 200, 300 and 400 level Commerce courses may be given to students who require those specific courses for completion of their programs.

Students enrolling in any Commerce Course with prerequisites are required to have completed all prerequisite courses for that course with a C- or better, or have permission to enroll from the Program Chair.

COMM 100-3 Introduction to Canadian Business This course is an overview of the Canadian business environment, forms of organizations, the management function, and an introduction to the functional areas of business management.

This course includes the challenges and opportunities facing small business.

Prerequisites: None. Note: Students transferring with 30 credit hours of Commerce courses are exempt from COMM 100-3 as a course, and as a prerequisite to other courses

COMM 200-3 Business Communication This course provides basic skills in written and oral business communication. It assists students to transition from academic to business writing and to effectively organize and deliver written and orally presented business reports. Topics covered in this course include: recognizing and avoiding plagiarism; accessing and using research sources for business purposes; writing business correspondence including letters and emails; and working on collaborative writing projects. Students acquire skills in communicating within workplaces typified by diverse backgrounds and varying work roles. Students are introduced to the case study method and the writing and delivery of solutions for business cases.

Prerequisites: COMM 100-3

COMM 210-3 Financial Accounting Introduction to the construction and interpretation of financial reports prepared primarily for external use. Students need a basic understanding of a spreadsheet application.

Prerequisites: COMM 100-3

COMM 211-3 Managerial Accounting Introduction to the development and use of accounting information for managerial planning and control and the development of cost information for financial reports. Problems in managerial accounting using spreadsheet tools.

Prerequisites: COMM 210-3

COMM 220-3 Financial Management I Deals with functions of the financial manager within the corporate setting. Topics include the Canadian financial environment, forms of business organizations and taxation, financial forecasting and planning, financial statement analysis, time value of money, capital budgeting under certainty, working capital management and short, intermediate and long term financing.

Prerequisites: COMM 100-3, COMM 210-3, and ECON 205-3; STAT 240-3 may substitute for ECON 205-3

COMM 230-3 Organizational Behaviour This course provides an introduction to the study of people and groups in organizations. Topics include perceptions, personality, learning, work motivation, job attitudes, group dynamics, and leadership.

Prerequisites: COMM 100-3

COMM 240-3 Introduction to Marketing This course is an introduction to the study of marketing in the context of social, consumer, and managerial processes. In this course, students study how marketing decisions concerning the choice of target markets, the development of product/services, price, promotion and distribution strategies influence the evolution of the exchange process and the satisfaction of buyer needs.

Prerequisites: COMM 100-3

COMM 251-3 Introduction to Management Science This course is a study of analytical approaches in management science that assist managerial decision-making under conditions of both certainty and uncertainty. Attention is given to the formulation of quantitative models from a variety of areas. Topics include linear programming, transportation/assignment problems, integer programming, multicriteria decisions, dynamic programming, decision analysis, queuing theory, and simulation.

Prerequisites: MATH 150-3 or MATH 220-3, MATH 152-3 or MATH 100-3, and ECON 205-3; MATH 240-3, STAT 240-3 or MATH 242-3 may substitute for ECON 205-3

COMM 300-3 Introduction to Business Law This course provides an introduction to the general principles of law relating to contract and tort. Special contracts include: agency, assignment, bailment, employment guarantee, insurance, negotiable instruments, sale of goods, and contracts creating a security interest in goods. Some aspects of the law relating to real property, partnership and corporations will be discussed.

Prerequisites: COMM 100-3

COMM 302-3 Entrepreneurship This course focuses on the processes and techniques required to convert ideas, inventions and innovations into profitable business undertakings. Students have the opportunity to develop a new venture business plan.

Prerequisites: COMM 240-3

COMM 303-3 Introduction to International Business Introduces the student to the global setting in which international business decisions are made. Emphasis is placed on the factors which are relevant to decision-making and a wide range of international business functions (e.g., marketing, finance, human resource management) and international business forms (e.g., export-import, foreign manufacturing, joint ventures).

Prerequisites: COMM 240-3

COMM 304-3 Employment Law in Canada The purpose of this course is to foster an understanding of the legal context of the relationship between employer and employee, and of the duties and responsibilities in that relationship. The laws surrounding human rights, employment standards, health and safety, grievance and arbitration, and dismissal are examined.

Prerequisites: COMM 300-3 or POLS 255-3

COMM 305-3 Case Studies in Business This course develops critical skills in the development and analysis of business cases. The course includes the development of new cases, practical methodology for analysis and presentation of case studies in all areas of business.

Prerequisites: 60 credit hours

COMM 310-3 Intermediate Financial Accounting I An examination of financial accounting theory from the viewpoint of procedures, principles and professional requirements related to the measurement, recording and reporting of assets and related income and expenses for use by third parties.

Prerequisites: COMM 211-3

COMM 311-3 Intermediate Financial Accounting II Continuation of COMM 310-3.

Prerequisites: COMM 310-3

COMM 312-3 Intermediate Managerial Accounting The provisions and analysis of cost accounting information that will assist management in making operating decisions and in evaluating operations and performance. The utilization of statistical analysis and linear models is included.

Prerequisites: COMM 211-3

COMM 313-3 Personal Taxation Interpretation problems associated with the Income Tax Act and the provisions of the Act concerned with the computation of taxable income and tax payable by an individual are examined.

Prerequisites: COMM 210-3

COMM 314-3 Corporate Taxation The provisions of the Income Tax Act relating to the taxes payable by various types of corporate entities and trusts are considered. Application of the provisions of the Act to business situations is examined in detail.

Prerequisites: COMM 313-3

COMM 315-3 International Accounting Examines the underlying causes of international accounting problems in terms of both internal financial control and external financial reporting. Emphasis is placed on understanding the environmental, social, economic and legal influences which have affected accounting evolution in various countries.

Prerequisites: COMM 210-3, COMM 211-3

COMM 316-3 Financial Statement Analysis Users of financial statements must be able to interpret financial reports, construct measures of financial performance and analyse the reporting choices made by companies. Reading and interpreting financial statements is a skill that impacts almost any business decision. This course focuses on application of account knolwedge and reading and interpreting financial statements.

Prerequisites: COMM 220-3

COMM 320-3 Financial Management II This course deals with analytical techniques and broad issues of financial management. Topics include capital budgeting and uncertainty, risk and return, the capital asset pricing model and market efficiency, determination of discount rates for capital projects including the weighted average cost of capital, leasing options and applications to corporate finance, capital structure and dividend policy, mergers and acquisitions, bankruptcy and reorganization.

Prerequisites: COMM 220-3, MATH 150-3 or MATH 220-3, and MATH 152-3 or MATH 100-3

COMM 321-3 Investments and Security Analysis The principles and techniques of investing in securities are discussed. Material covered includes sources and analysis of investment information, evaluation of risks and returns associated with various financial instruments including futures and options. Security analysis including fundamental and technical analysis.

Prerequisites: COMM 320-3

COMM 322-3 International Financial Management An introduction to the various international financial markets and the problems, risks and opportunities involved in the financial management of multinational enterprises. Hedging of foreign exchange risk, international capital budgeting and import/export financing are among the topics covered.

Prerequisites: COMM 320-3

COMM 323-3 Risk, Insurance and Financial Planning Deals with the concepts of risk and business risk management, the various kinds of insurance including life, health and property and liability. Financial planning for the individual and employees including pension plans, taxation issues and real asset investment decisions including real estate.

Prerequisites: COMM 320-3

COMM 330-3 Human Resource Management The analysis, design, operation and management of HRM processes, their contribution to employee and organization effectiveness and the influence of organizational and external environment. The principal topics considered are HRM planning and its link to strategic planning, employment equity, staffing, training/development (including performance appraisal) and employee maintenance. The course views the management of human resources as the joint responsibility of line and HRM managers.

Prerequisites: COMM 230-3, and ECON 205-3

COMM 331-3 Organizational Theory This course focuses on the structure of the organization, examining such determining factors as the organization's size, environment, technology and strategy. It also examines internal politics, conflict, decision-making, and culture from a macro perspective.

Prerequisites: COMM 230-3

COMM 332-3 Business and Professional Ethics This course focuses on ethical philosophies and their application to specific ethical issues of relevance to work organizations and to the demands of multiple stakeholders.

Prerequisites: None

COMM 333-3 Women in Organizations This seminar course examines the issues faced by women in the work force. Topics include women in non-traditional occupations and women as entrepreneurs. Individual, organizational and societal approaches to enhancing opportunities and quality of work life for working women are explored.

Prerequisites: COMM 230-3, ECON 100-3, and ECON 101-3, or permission of the instructor Precluded: ECON 301-3

COMM 334-3 Strategic Human Resource Planning This course examines the leadership role that a human resources professional plays in developing the organization's vision, goals, and strategies and the human resource initiatives that support these strategic directions. Students acquire capabilities in job analysis and human resources planning, which provides the informational foundation for all of human resources management.

Prerequisites: COMM 330-3

COMM 335-3 Organization Effectiveness Students learn how to develop high performance work programs that support organizational culture and goals. Students acquire an understanding of an organization's relationship to its external environment; the principles of organizational design, structure, and change; and the strategies for employee communication, retention and involvement.

Prerequisites: COMM 330-3

COMM 340-3 Marketing Communication A study of communication theory and its application to advertising and sales promotion decisions. An examination of the role of advertising in relation to the overall marketing strategy.

Prerequisites: COMM 240-3

COMM 341-3 Sales Management The study of the management of the personal selling area, including an examination of the selling function, the sales manager, and sales management.

Prerequisites: COMM 240-3

COMM 342-3 Services Marketing Applies marketing management principles specifically to the service industries, including the financial services and tourism industries.

Prerequisites: COMM 240-3

COMM 343-3 Behavioural Marketing This course examines the psychological, social, and cultural factors that influence consumer cognition, feelings, attitudes and behaviour by introducing concepts, principles and theories drawn from marketing and related social science disciplines. Students learn from a managerial decision-making perspective and investigate the implications of consumer behaviour for all stages of the marketing process, including product development, marketing communications, and post-sales services.

Prerequisites: COMM 240-3

COMM 346-3 Internet Marketing This course provides insights into the converging logic of traditional marketing in the information age from managerial and consumers' perspectives. Students learn how to understand consumer internet behaviour, identify appropriate target segments, develop product opportunities, pricing structures, and distribution channels over the Internet, and execute marketing strategy in a computer-mediated environment.

Prerequisites: COMM 240-3, CPSC 250-3

COMM 347-3 Marketing Channels and Retail Management This course provides insights into marketing distribution systems, retailing and wholesaling as well as relevant legislation. Further, this course emphasizes the structure of retailing in Canada, and the retail management of location, layout, inventory, personnel, sales, promotion, financial control and pricing procedures.

Prerequisites: COMM 240-3

COMM 350-3 Production and Operations Management An introduction to the production/operations function with emphasis on the use of both qualitative and quantitative analysis to assist decision-making. Topics include forecasting, product design, capacity planning, process selection, facility location and layout, aggregate planning, material requirement planning, JIT, scheduling, inventory management, project planning, statistical quality control and total quality management.

Prerequisites: COMM 251-3

COMM 351-3 Management Information Systems This course emphasizes the strategic role of information systems in modern business. Topics include the technical foundations of information systems, the impact of information systems on business operations and decision-making, and the processes that are required for successful implementation of business information systems.

Prerequisites: COMM 100-3, CPSC 250-3, and ECON 205-3

COMM 352-3 e-business The course provides an introduction to electronic business concepts and e-business strategies. The students study various e-business models and applications, their benefits and risks, infrastructure needs, Business-to-Business and Business-to-Customer strategies, and legal and ethical issues. An introduction to business intelligence tools is also provided. Students work in teams to develop an internet business plan and implement a prototype with emphasis on form validation, security, electronic payment systems, and linkage with backend databases.

Prerequisites: CPSC 250 or permission of Chair

COMM 353-3 Business Data Communications and

Networking This course provides an understanding of basic data communications and networking concepts with emphasis on business computing. Topics covered include data transmission and encoding, Internet and Internet2, Network Layer model, network protocols, data privacy and security, and data communication hardware. Students learn about protocols and topologies of Local Area Networks (LANs), Wireless LANs, Wide Area Networks (WANs), Metropolitan Area Networks (MANs), and Backbone Networks (BNs). Students also engage in researching emerging technologies and present a case-study.

Prerequisites: CPSC 250-3 or permission of Chair Precluded: CPSC 344-3, CPSC 440-3

COMM 354-3 Introduction to Business Intelligence Business intelligence involves conversion of mass data into effectively communicated information through visual, interactive media that enables evidence-based strategic decision making. Course topics include: data extract-transform-load (ETL); data quality; master data management (MDM); data warehouse models; conformance; star/snowflake dimensional models; online transaction processing (OLTP); online analytical processing (OLAP); effective data visualization (lead/lag key performance indicators, scorecards, dashboards, reports); governance; success/failure factors; and emerging trends. The students apply the concepts in a term project using leading technologies and business intelligence tools.

Prerequisites: COMM 351-3 or CPSC 324-3 or CPSC 351-3

COMM 400-3 Strategic Management This integrative course focuses on the core concepts and analytical tools of strategic planning and implementation. The materials presented cover the changes in competitive markets and company strategies that are being driven by globalization and technological innovation. The course includes extensive use of case analysis and features a wide range of business types and sizes.

Recommended: This course is open to Commerce students in their graduating year

COMM 410-3 Accounting Theory A critical examination of problem areas of current interest in financial accounting theory. Consideration of methods by which accounting theory is developed and examination of specific models including historical costs, resale price and price level adjustment models.

Prerequisites: COMM 311-3

COMM 411-3 Advanced Management Accounting Design of management planning and control systems. Development of depth of understanding in the quantitative techniques relevant to the managerial accountant. Consideration is given to cost analysis, transfer pricing and information for capital expenditure and inventory decisions.

Prerequisites: COMM 312-3

COMM 412-3 Auditing Principles of external auditing, the nature of evidence, reporting requirements, standards in auditing. The philosophy of auditing, independence and ethics are also considered.

Prerequisites: COMM 311-3

COMM 413-3 Accounting: Advanced Topics Advanced and selected topics in accounting. The general content tends to focus on material not dealt with on a recurring basis in the regular course sequence.

Prerequisites: COMM 311-3, 312-3

COMM 414-3 Advanced Financial Accounting An examination of accounting problems encountered in such areas as complex business organizations, intercorporate investments, foreign operations and foreign currency transactions, and not-for-profit operations.

Prerequisites: COMM 311-3

COMM 420-3 Advanced Financial Management Intensive treatment is given to selected areas of finance, including elements of both theory and practice with an emphasis on the role of financial strategy in the overall corporate business policy. Emphasis is placed on financial policy and strategy issues through discussions, case analysis and presentation covering a variety of topics.

Prerequisites: COMM 320-3, 321-3

COMM 421-3 Portfolio Theory and Management Fundamentals of multi-asset portfolio construction and management including fixed-income portfolio strategies. The uses of derivative securities in portfolio management. Issues involved in setting investment objectives and performance evaluation. International investment and diversification. Asset allocation and contemporary issues.

Prerequisites: COMM 320-3, 321-3

COMM 422-3 Management of Financial Institutions The financial management issues of financial institutions such as chartered banks, insurance companies, trust companies, mortgage and loan companies, pension funds and investment companies. The regulatory environment and the asset and liability management techniques employed.

Prerequisites: COMM 321-3

COMM 423-3 Financial Engineering Study of futures, options, swaps and other complex derivative securities, application of option pricing theory to a broad range of corporate finance and investment decisions.

Prerequisites: COMM 320-3, 321-3

COMM 429-3 Finance: Advanced Topics The examination and application of selected topics in finance. Topics depend upon instructor and student interest.

Prerequisites: COMM 320-3

COMM 430-3 Organization Studies: Selected Topics This course focuses on three to five topics related to the material presented in COMM 230-3 Organizational Behaviour. As the course content may vary with each offering, students can consult the instructor/program for information concerning topics.

Prerequisites: COMM 230-3

COMM 431-3 Industrial Relations Canadian industrial and labour relations with emphasis on the labour-management relationship. Topics include the basic elements of an industrial relations system, the social, economic, legal and political environment in which participants interact, and the process of collective bargaining.

Prerequisites: COMM 330-3

COMM 432-3 Cross-cultural Workplace Practices Examines cross-cultural differences in management practices, industrial relations systems and human resource practices, including those pertaining to First Nations. It also includes a discussion of the management of diversity within North American organizations.

Prerequisites: Upper-division standing and COMM 330-3

COMM 433-3 Recruitment, Selection, Retention This course develops the knowledge and skills to recruit and select employees who will contribute to the success of an organization. The concepts and techniques of recruitment, selection, orientation, and deployment are examined from legal, ethical, cultural, and strategic perspectives.

Prerequisites: COMM 330-3 and COMM 334-3

COMM 434-3 Compensation This course develops the knowledge and skills to design and administer compensation and benefit programs that attract and retain employees and support organizational goals. Labour markets, job evaluation, internal and external equity, and communication and confidentiality are examined from legal, ethical, cultural, and strategic perspectives.

Prerequisites: COMM 334-3

COMM 435-3 Organizational Learning, Development and

Training This course develops the knowledge and skills to design, implement, and evaluate training and development programs that will enable employees to fulfill their potential and contribute to the goals of an organization. Principles of adult learning, coaching and counseling, program design and evaluation, and career planning are examined from legal, ethical, cultural, and strategic perspectives.

Prerequisites: COMM 334-3

COMM 436-3 Workplace Health and Safety This course develops the knowledge and skills to design, manage and evaluate programs in the areas of health, safety, security, and worker's compensation to ensure the protection and well-being of employees. The joint responsibilities and rights of employers, unions, and employees, the identification of risks and hazards in the environment, the development of training programs and preventative measures, accident investigation, the accommodation of disabled workers, the provision of wellness and employee assistance programs, and information management systems are discussed from legal and ethical perspectives.

Prerequisites: COMM 334-3 Precluded: HHSC 370-3

COMM 437-3 Values-based Leadership This course provides an overview of the literature on leadership throughout history and reviews the main leadership theories developed in the 20th and 21st centuries, with a focus on what makes a good leader, both in sense of administrative or managerial effectiveness as well as in a moral sense. Models of successful leadership in both the public and private sector are explored through case studies.

Prerequisites: COMM 230-3 Precluded: POLS 417-3

COMM 439-3 HRM: Selected Topics The examination and application of selected, current and emerging topics in human resources management. Topics may vary from semester to semester, depending on student and instructor interest.

Prerequisites: COMM 230-3, 330-3

COMM 440-3-6 Internship

Prerequisites: Upper-division standing and permission of the Program Chair

COMM 441-3 International Marketing The problems and opportunities of marketing in foreign environments are examined. The course focuses on the cultural, economic and geographic problems encountered in managing the marketing function from a Canadian manager's perspective.

Prerequisites: COMM 240-3

COMM 442-3 Marketing Strategy Using a marketing simulation, this course is designed to assist students in acquiring skill and experience in strategic marketing decision-making. By understanding how changes in markets, industries, and organizational strengths/ weaknesses create marketing opportunities and threats, students are exposed to the role of strategic marketing decision-maker. In that role, they will learn to develop and execute creative target market and positioning strategies in a competitive environment.

Prerequisites: COMM 240-3, 343-3

Course Descriptions: COMM

COMM 443-3 Marketing Research Assists students in acquiring an understanding of basic marketing research concepts and practice that facilitates the systematic specification, collection, and analysis of information for marketing decision-making. The course is organized around an applied research project in which students will be responsible for conceiving, executing, analyzing and reporting the results of an original marketing research project for a business client.

Prerequisites: COMM 240-3, COMM 343-3, and ECON 205-3

COMM 449-3 Advanced Topics in Marketing Advanced and selected topics in marketing. Topics depend on instructor and student interest and focus on material not dealt with in the regular course sequence.

Prerequisites: COMM 240-3, and permission of instructor

COMM 450-3 Total Quality Management This course examines the basic concepts and tools of total quality management, strategy quality planning, management of process (technology) quality, quality value and engineering, loss function and quality level, statistical quality control, quality and operation results, Taguchi methods, Just-In-Time, preventive maintenance, and other aspects of quality management.

Prerequisites: ECON 205-3 or MATH 242-3 or equivalent Recommended: COMM 350-3

COMM 451-3 Project Management This course considers behavioural and structural aspects of projects, study of project life cycles, project planning, scheduling, budgeting, resource loading, resource levelling, resource planning, and cost estimation and crashing, project monitoring and controlling, project evaluation, auditing and termination. Project management related exercises, case studies and use of project management software are the practical aspects of the course.

Prerequisites: COMM 350-3 or with the permission of the instructor

COMM 452-3 Logistics and Supply Chain Management This course introduces students to the application of logistics and supply chain management concepts. The course examines the nature and scope of supply chain, logistics framework, purchasing and procurements, porcessing, transportation, warehousing, and distribution logistics, role of information and simulation technology, reverse logistics and contemporary issues.

Prerequisites: COMM 350-3

COMM 497-(3,6) Honours Thesis in Business

Administration Students pursue an independent research study under the supervision of a PhD-qualified faculty member in the School of Business. Students present the results of their thesis research to members of the School of Business and other interested members of the university community.

Prerequisites: Acceptance into BComm Honours program

COMM 498-(3-6) Special Topics in Business Administration

 $\ensuremath{\textit{Prerequisites:}}$ Upper-division standing and permission of the Program Chair

COMM 499-(3-6) Independent Study

 $\ensuremath{\textit{Prerequisites:}}$ Upper-division standing and permission of the Program Chair

Course Descriptions: COOP, CPSC

Co-operative Education (COOP)

Unless otherwise stated, the prerequisites for all Co-op Education courses are: acceptance into Co-operative Education, declaration of academic program major, completion of 30 credit hours or permission of the relevant Co-op Co-ordinators and Program Chair. Minimum GPA 2.50.

COOP 395 Co-op Work Semester I First term co-operative work experience.

Prerequisites: None

COOP 396 Co-op Work Semester II Second term co-operative work experience.

Prerequisites: COOP 395

COOP 397 Co-op Work Semester III Third term co-operative work experience.

Prerequisites: COOP 396

COOP 398 Co-op Work Semester IV Fourth term co-operative work experience.

Prerequisites: COOP 397

COOP 399 Co-op Work Semester V Fifth term co-operative work experience.

Prerequisites: COOP 398

Computer Science (CPSC)

Unless otherwise stated, a student may enroll in any Computer Science course with permission of the Program Chair.

Note: BC Introductory Mathematics 11, Applications of Mathematics 11 and Applications of Mathematics 12 are not considered as prerequisites for any Computer Science courses as currently taught.

Students enrolling in any Computer Science or Mathematics course with prerequisites are required to have completed all prerequisite courses for that course with a C- or better, or have permission to enroll from the Program Chair.

CPSC 100-4 Computer Programming I This course introduces the fundamental concepts of programming from an object-oriented perspective. Topics include fundamentals of programming style, syntax, data types, arithmetic and logical expressions, assignments, control structures, arrays, functions, file i/o, classes, inheritance, and dynamic storage allocation. The course emphasizes the development of problem solving and programming skills, including testing techniques and the use of debugging tools. Students must also register in a lab and in a tutorial section.

Prerequisites: Principles of Math 12 or Precalculus 12 or MATH 115-3 Precluded: Credit will not be awarded for both CPSC 110-3 and CPSC 100-4. Refer to major for required courses

CPSC 101-4 Computer Programming II This course is a continuation of CPSC 100-4. Objects, classes, inheritance and polymorphism are discussed in depth. Other topics include object-oriented program design and development using principles of software engineering; modeling with UML; GUI components and graphics; dynamic storage allocation, exception handling, the heap, and garbage collection; run-time support for program execution; and the use of standard libraries. Students work cooperatively to complete a medium-sized project. This course requires both tutorial and laboratory components.

Prerequisites: CPSC 100-4 and CPSC 141-3

CPSC 110-3 Introduction to Computer Systems and

Programming This course provides an introduction to computer systems and programming, concepts in computer architecture including the central processing unit, buses, memory units, input/ output and communication devices. The introduction to operating systems emphasizes the file system and program development utilities. Programming concepts and techniques include problem analysis, program design, coding, and testing, as well as language elements such as data types, variables and assignment statements, expressions, mixed-mode arithmetic, input/output operations, basic data structures and control structures, procedures and abstract data types. Basic database management concepts are also introduced. Students develop small applications programs. CPSC 110-3 is a first course in computer science and computer programming. CPSC 110-3 cannot be counted as a computer science course by computer science majors.

Prerequisites: Principles of Math 12 or MATH 115-3 or Precalculus 12 or Math Foundations 12

Precluded: Credit will not be awarded for both CPSC 110-3 & CPSC 100-4. Refer to major for required course

CPSC 126-3 Introduction to Computing This course is an introduction to computer science. It introduces and exposes the student to the many facets and fields of computer science. Topics discussed include history of computing; algorithms, the hardware and software models of the computer, computer security, problem solving using computers and computer programming; basic and emerging concepts and applications of computer science; and the basics of computer networking, and the Internet.

Prerequisites: Math 12 or Principles of Math 12 or Math 115-3 or Precalculus 12 or Math Foundations 12

CPSC 141-3 Discrete Computational Mathematics This course provides an introduction to set theory, elements of combinatorics and probability theory, logical and formal reasoning using predicate and propositional calculus, together with narrative proof techniques. Other topics include well ordered sets, recursive definitions and mathematical induction; introductory number theory including the division algorithm, Euclidean algorithm, prime numbers and the fundamental theorem of arithmetic; properties of functions and relations including bijections, projections, inverses, composition, and Cartesian products.

Prerequisites: Math 12 or Principles of Math 12 or MATH 115-3 Precluded: CPSC 240-3

CPSC 150-3 Computer Applications Taught through the use of common applications, beginning with word processing, this course prepares students for future as well as present needs in computing literacy by reaching beyond examples to recognition of principles. Students gain a practical grasp of data formats, program behaviour, using documentation, and the role of hardware. Communications (including the World Wide Web), and cross-platform transference of data, feature prominently, in addition to traditional office applications such as spreadsheets and databases. Students attend lectures and work from web-mounted lab material. Each student undertakes a personal project, which documents independent learning. May not be counted as a computer science course by computer science majors.

Prerequisites: None

CPSC 199-(1-3) Introductory Special Topics I The intent of this course is to timely offering of courses that either reflect rapid change in Computer Science, provide supplementary material in specific concrete topics or skills, or expose non-majors to advances in Computer Science. Consequently, the topic and availability of this course varies. The course may be retaken any number of times, provided all topics are distinct.

Prerequisites: Permission of the instructor

CPSC 200-3 Algorithm Analysis and Development This course introduces the development and analysis of algorithms. Topics include asymptotic complexity and notation, algorithm analysis, comparison of sorting algorithms, NP Completeness, assertions, and loop and data type invariants. An introduction to program correctness is given and correctness proofs of simple programs are discussed. Recursion relationships are examined. Applications of algorithms are considered.

Prerequisites: CPSC 101-4 and CPSC 141-3

CPSC 222-3 Introduction to Concurrent and Distributed

Programming This course introduces the core concepts, techniques, and tools for concurrent and distributed programming. Topics include concurrent programming in shared memory systems and distributed programming in message passing systems. After introducing the necessary concepts, various coordination problems are discussed and then solved using different synchronization mechanisms. Relevant programming environments are introduced and students gain hands-on experience through programming assignments in both shared memory systems and message passing systems.

Prerequisites: CPSC 101-4 Precluded: CPSC 322-3

CPSC 230-4 Introduction to Logic Design Topics include principles of digital circuit design, boolean algebra, basic switching functions and gate-level implementation, canonical forms, algebraic simplifications, Karnaugh maps, Quine-McCluskey tables, voltage assignments, logic technologies, combinational logic circuits, decoders, encoders, multiplexers, demultiplexers, comparators, adders, sequential logic circuits, clocked flip-flops, registers, counters, register transfer logic, central processing unit, instruction set, addressing modes, arithmetic and logic units, control unit, bus organization.

Prerequisites: CPSC 100-4, CPSC 141-3

CPSC 231-4 Computer Organization and Architecture This course introduces computer organization and architecture. Topics include: computer abstractions and technology, characteristics of good computer architecture, instruction set architecture, Reduced Instruction Set Computers (RISC), Complex Instruction Set Computers (CISC), processor datapath and control, pipelining, hyper-threading, memory systems, I/O systems, bus, multiprocessors, parallel computers, and Flynn's Taxonomy. Students gain hands-on experience through a series of assembly level programming lab assignments using a simulator of a simple machine.

Prerequisites: CPSC 230-4

CPSC 242-3 Mathematical Topics for Computer Science This course introduces topics in graphs and trees: terminology, trails, paths, cycles, and shortest paths. As well, this course discusses counting methods: principles of inclusion and exclusion, combinatorial identities and arguments, and generating functions. Topics in probability theory are introduced.

Prerequisites: CPSC 141-3; and either MATH 100-3 or MATH 105-3 Precluded: CPSC 142-3

CPSC 250-3 Applied Business Computing This course examines core computing knowledge and techniques as they apply to business applications. The course covers database design and information retrieval techniques with emphasis on web-database integration, advanced features of spreadsheets, recording/analyzing basic business transactions using a variety of accounting software, and implementation of selected financial models. Presentational and interface design techniques are also covered. Students complete a term project that solves a typical business problem using the software and procedures of their choice. This course may not be counted as a computer science course by computer science majors.

Prerequisites: None. Basic knowledge of computers and experience with browsing the World Wide Web is preferable

CPSC 260-3 Ethics in Computing Science This course focuses on codes of ethics of computing professional societies, technology and human values, costs and benefits of technology, the social context of work in computer science and engineering, copyright, patents, access, and other concepts.

CPSC 270-3 Human Interface Design The course examines the theory and practice of human-computer interaction and interface design. Human aspects of the interaction: cognition, perception, attention and memory constraints, knowledge representation, interface metaphors, learning, communication. Technological aspects of interface design: input-output devices, interaction styles, windowing systems and tools, client-server models, interfaces for collaborative work, virtual environments. A project with a substantial user interface component, involving interface design, validation, implementation, testing, and evaluation will be completed.

Prerequisites: CPSC 200-3

CPSC 281-3 Data Structures I Topics include program performance, data representation, arrays and matrices, lists, stacks and queues, skip lists and hashing, binary trees, balanced and B-trees. AVL trees, splay trees, tree traversals using stacks, expression trees, prefix, infix, and postfix expressions and conversions, priority queues and heaps, search trees, Hoffman codes, graphs, graph algorithms, (weighted and unweighted shortest-path, Dijkstra's algorithm, critical paths), minimum-cost spanning trees (Prim's, Kruskal's, and Sollin's algorithms). Implementation of various data structures using object-oriented programming language.

Prerequisites: CPSC 200-3

CPSC 299-(1-3) Introductory Special Topics II The intent of this course is to timely offering of courses that either reflect rapid change in Computer Science, provide supplementary material in specific concrete topics or skills, or expose non-majors to advances in Computer Science. Consequently, the topic and availability of this course varies. The course may be retaken any number of times, provided all topics are distinct. This course normally supposes some first-year exposure to Computer Science.

Prerequisites: Permission of the instructor

CPSC 300-3 Software Engineering I Fundamental problemsolving concepts, the software development process, software requirements and specifications, software design and implementation, verification and validation, organization and management of programming teams, and documentation are discussed. Students work on a team project.

Prerequisites: CPSC 281-3

CPSC 320-3 Programming Languages This course is a general introduction to programming languages. Topics include an overview of programming languages and language design objectives, specification of syntax and semantics, virtual machines and language translation, lambda calculus and theoretical fundamentals, program correctness and reasoning about programs, programming language constructs, declarations and types, abstraction mechanisms, and programming paradigms. An interpreter-based approach is used to describe the semantics of language constructs. Assignments include case studies and laboratory work.

Prerequisites: CPSC 242-3 and CPSC 200-3, or permission of the

instructor

Recommended: CPSC 340-3

CPSC 321-3 Operating Systems This course introduces the fundamental concepts of operating systems. Topics include tasking and processes, process co-ordination and synchronization, scheduling and dispatch, physical and virtual memory organization, paging and segmentation, device management, file systems, and security and protection. Students study a simple operating system and have an opportunity to make modifications to it in laboratory exercises.

Prerequisites: CPSC 231-4, CPSC 281-3, CPSC 222-3, CPSC 242-3

CPSC 324-3 Introduction to Database Systems This course focuses on the relational database model. Topics include storage structure and access methods, data definition and data manipulation language, relational algebra and calculus, and SQL. An introduction to database design using entity-relationship model, functional dependencies, and theory of normalization is provided. A relational DBMS is used for understanding SQL and application development in SQL-like languages and general purpose host languages with application program interfaces.

Prerequisites: CPSC 281-3 Precluded: CPSC 422-3 CPSC 325-3 Introduction to Compiler Design Introduction to programming language translation. Compilers, interpreters, and other language processors. The phases of a compiler. Lexical analysis and scanner design. Syntax analysis and parsing techniques. Semantic analysis and code generation. Compile-time and run-time aspects of semantics. Execution environment and run-time support. Code optimization. Testing. The students will design and implement a compiler for a small Pascal-like language.

Prerequisites: CPSC 281-3 and CPSC 340-3

CPSC 340-3 Theory of Computation This course examines regular expressions, deterministic and non-deterministic finite automata, context-free and other grammars, pushdown automata, Chomsky and Greibach normal forms, Chomsky hierarchy, pumping lemmas, Turing machines, undecidability, computability, recursive function theory, computational complexity NP-hard and NP-complete problems.

Prerequisites: CPSC 142-3 or CPSC 242-3

CPSC 344-3 Data Communications and Networking This course provides an understanding of basic concepts underlying data communications and networking. Topics covered include data transmission and encoding, Internet and Internet2, Network Layer model, multiplexing, circuit switching, packet switching, network protocols, and data communication hardware. Students also learn about protocols and topologies of Local Area Networks (LANs), Wireless LANs, Wide Area Networks (WANs), Metropolitan Area Networks (MANs), and Backbone Networks (BNs). The basic concepts of network design and implementation, network management, and network security are also introduced.

Precluded: CPSC 440-3, COMM 353-3

CPSC 346-3 Cryptography and Data Security This course is an introduction to the basic algorithms for confidentiality and authenticity of data. Topics include cryptographic primitives and specific realizations, transposition and substitution ciphers, modern private and public key encryption systems, digital signature, realization of AES, DES, RSA, and other systems.

Prerequisites: CPSC 100-4 and CPSC 141-3

CPSC 350-3 Introduction to Computer Graphics This course provides an overview of Computer Graphics and covers topics such as Basic Raster Graphics Algorithms for Drawing 2D Primitives, Transformations, 3D Viewing, Visible-Surface Detection, Illumination and Rendering, Visualization and Animation.

Prerequisites: MATH 220-3 and CPSC 281-3

CPSC 351-3 Management Information Systems This course emphasizes the strategic role of information systems in modern business. Topics include the technical foundations of information systems, the impact of information systems on business operations and decision-making, and the processes that are required for successful implementation of business information systems.

Prerequisites: CPSC 100-3 or permission of the instructor Precluded: COMM 351-3 CPSC 354-3 Introduction to Business Intelligence This course provides students with an understanding business intelligence which involves conversion of mass data into effectively communicated information through visual, interactive media that enables evidence-based strategic decision making. Course topics include: data extract-transform-load (ETL); data quality; master data management (MDM); data warehouse models; conformance; star/snowflake dimensional models; online transaction processing (OLTP); online analytical processing (OLAP); effective data visualization (lead/lag key performance indicators, scorecards, dashboards, reports), governance, success/failure factors, and emerging trends. Students apply the concepts in a term project using leading technologies and business intelligence tools.

Prerequisites: COMM 351-3 or CPSC 324-3 or CPSC 351-3

Precluded: COMM 354-3

CPSC 370-3 Functional and Logic Programming This course provides an introduction to programming in symbolic languages such as the functional language Scheme and the logic programming language Prolog, with applications to systems programming, symbolic computation, artificial intelligence and other areas.

Prerequisites: CPSC 281-3 and CPSC 141-3

CPSC 371-3 Artificial Intelligence Productions and matching, knowledge representation, search, logical reasoning and the use of PROLOG in learning, natural-language understanding, computer vision, expert systems.

Prerequisites: CPSC 370-3, or permission of the instructor

CPSC 377-3 Introduction to Robotics This course is an introduction to hardware architecture and control architecture of robotic and mechatronic devices. Topics include electronics, sensor capabilities, calibration of sensors, control of sensor I/O, motor and motion control through duty cycle and pulse width modulation. Laboratory topics include the development of interfaces between sensors, their control boards and digital circuitry including microprocessors. Microprocessor control of sensors and motors is developed, including the use of reasoning embedded in onboard microprocessor software for control of robotic actions.

Prerequisites: PHYS 100-4 or PHYS 110-4, CPSC 231-4 or permission of the instructor

CPSC 400-3 Software Engineering Project The course provides students, working in groups, with a significant project experience in which they can integrate much of the material they have learned in CPSC 300 Software Engineering, including matters relating to requirements, design, human factors, professionalism, and project management.

Prerequisites: CPSC 300-3 Precluded: CPSC 301-3 CPSC 424-3 Advanced Database Systems This course is an introduction to advanced concepts in database design and applications. Topics discussed include transaction management, concurrency control, query processing and optimization, recovery and security, data warehousing and data mining, handling of special data types such as multimedia, spatial data, and XML documents. An introduction to object-oriented and object-relational models, parallel and distributed databases, and special purpose databases is also provided. Support for complex applications, information retrieval and data analysis is examined.

Prerequisites: CPSC-321 and CPSC-324 or permission of instructor Precluded: CPSC-422-3, CPSC-624-3

CPSC 425-3 Introduction to Compiler Design This course is an introduction to programming language translation, compilers, interpreters, and other language processors. Topics include the phases of a compiler, lexical analysis and scanner design, syntax analysis and parsing techniques, semantic analysis, code generation, compiler generation tools, compile time and run time aspects of semantics, execution environment and run time support, code optimization, and testing. Students design and implement a compiler for a small language.

Prerequisites: CPSC 281-3, CPSC 340-3

Precluded: CPSC 325-3

CPSC 430-(3, 6) Undergraduate Thesis This undergraduate thesis allows students to examine and research a topic in a the field of computer science. Students must have completed at least 90 credit hours and be computer science majors. This thesis may be taken in one or two semesters. CPSC 430 is normally taken over two semesters and requires that a student find an Undergraduate Thesis research supervisor. Therefore, students are encouraged to apply to potential supervisors well in advance of completing 90 credit hours. This course may be repeated for a total of 6 credit hours.

Prerequisites: 90 credit hours, permission of the Instructor and Department Chair

CPSC 441-3 Distributed Systems This course covers the fundamental principles and paradigms underlying the design of distributed computing systems. Coverage includes the definition and types of distributed systems, communication, processes, naming, synchronization, consistency and replication, fault tolerance, and security. Term projects focus on case studies of specific systems representing web-based, peer-to-peer, mobile, grid, and other modern paradigms.

Prerequisites: CPSC 321-3, or permission of the instructor

CPSC 442-3 Parallel Computing This course introduces students to concepts in high performance computing. Topics include classification of parallel architectures, basic communications operations, interconnection networks, topologies of dynamic and static networks, performance issues and techniques for optimization, and dynamic programming. Parallel algorithm design for high-performance computing such as applications in computational biology, finite-element and finite-difference methods for numerical simulations, dense/sparse matrix algorithms, and multidimensional data structures is also discussed. Message passing (MPI and OpenMP) is used for implementation of algorithms on high performance cluster computers.

Prerequisites: CPSC 321-3 or permission of the instructor

CPSC 444-3 Computer Networks This course explores essential topics in computer networks including TCP protocol, TCP reliable transport service, Internet protocol IP addresses, IP datagram and datagram forwarding, IPv6, network applications, real time interactive applications protocols (RTP, RTCP, SIP, H.323), security in computer networks, and network management. Network applications discussed include client-server interaction, naming and domain name system DNS, multimedia networking, VoIP, audio and video streaming.

Prerequisites: CPSC 321-3

CPSC 450-3 Bioinformatics This course introduces computational techniques for solving biological problems and presents an overview of tools and the methods used to analyze large biological data sets. After introducing molecular biology for computer scientists—cells and organelles, chromosome, gene, DNA, RNA, proteins, transcription and translation—the course explores pairwise and multiple sequence alignment, sequence database searches, pattern identification of genes, promoters and transcription factor binding sites, as well as secondary and tertiary structure prediction for RNA and proteins. Markov models for gene prediction are introduced.

Prerequisites: CPSC 324-3 or permission of the instructor

CPSC 451-3 Digital Image Processing and Computer

Vision Digital image processing is central to our digital age. This course explores topics in image representation, transforms, enhancement, restoration, segmentation, retrieval, and indexing.

Prerequisites: CPSC 101-4, CPSC 142-3 or CPSC 242-3, MATH 220-3

CPSC 472-3 Knowledge Based Systems This course introduces students to Expert Systems. The two major topics addressed are Rulebased systems and Fuzzy Logic systems. Goal driven forward-chaining and backward-chaining paradigms are introduced. Automatic theorem provers, inference engines and problems of knowledge representation and knowledge acquisition are discussed. Approaches to reasoning about uncertainty are covered including Bayesian probabilities, certainty factors, non-monotonic logics and reasoning with beliefs. A Fuzzy Logic system is implemented and an application is developed and tested.

Prerequisites: CPSC 370-3 or permission of the instructor

CPSC 474-3 Natural Language Processing The course introduces the formal and practical methods of Natural Language processing. Topics include formal grammars and the Chomsky hierarchy, natural languages, models of syntax, augmented lexicons, parsing methods, semantic structures and knowledge representation for natural language processing, linguistic models, discourse models, problems of reference, machine translation, part of speech tagging, ambiguity and information retrieval.

Prerequisites: CPSC 370-3 or permission of the instructor

CPSC 475-3 Multiagent Systems An introduction to the theoretical and practical aspects of intelligent agents and multiagent systems, this course is open to undergraduate students majoring in different areas and fosters creative multi-disciplinary interaction. Coverage includes the basic concepts, agent architectures, deductive and practical reasoning agents, reactive and hybrid agents, multiagent interactions, human-agent interactions, agreements, communication, and teamwork. Individual or team projects allow students to explore specific topics in their areas of interest through theoretical or laboratory work.

Prerequisites: Upper-division standing in Computer Science, or upperdivision standing in another area and permission of the instructor

CPSC 482-3 Data Structures II External sorting and merging, best case, worst case, and average case estimates, time and space estimates for algorithms studied in CPSC 200-3 and 281-3.

Prerequisites: CPSC 281-3, and 340-3, or permission of the instructor

CPSC 495-3 Undergraduate Research Project I This course consists of a small research project undertaken by the student or by teams of students. Projects will consist of the definition of a problem in computing and a literature survey of recent work in the field. Students are encouraged to define their own possible solutions and to prototype the solutions where appropriate. Regular review of progress is made in meetings. Students develop skills in the preparation of topic survey notes and in the development of arguments in support of or against published approaches to problems in computing. Students are expected to prepare and present their work. This course may be repeated provided all topics are distinct.

Prerequisites: Permission of the instructor

CPSC 499-3 Special Topics The topics for this course vary, depending on student interest and faculty availability. This course may be retaken any number of times, provided all topics are distinct.

Prerequisites: Permission of the instructor

Economics (ECON)

Successful completion of grade 12 Math or equivalent is strongly recommended before taking Economics courses.

ECON 100-3 Microeconomics The interactions of households, firms and government policies. An analysis of how different economic agents interact to determine what is produced, how it is produced and to whom it is distributed.

Prerequisites: None

ECON 101-3 Macroeconomics The determinants of unemployment, inflation and growth focusing on Canada's macroeconomic performance.

Prerequisites: None

ECON 204-3 Contemporary Economic Issues This course provides an introduction to contemporary economic issues. Issues examined will vary by year and may be related to trade, finance, demographic change, regional economic development, Aboriginal economic development, energy, and various aspects of government policy and behaviour. This course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: None

ECON 205-3 Statistics for the Social and Management Sciences An introduction to the principles and applications of statistics relevant to the social and management sciences, with emphasis on making inferences based on observed data. Topics covered include descriptive statistics, probability, random variables, decision theory, estimation, hypothesis testing, statistical software.

Prerequisites: None

ECON 206-3 Methods of Economic Evaluation This course provides an introduction to the analysis and evaluation of socioeconomic issues, projects, programs and policies. Contemporary techniques of project and program evaluation are examined. Methods of economic evaluation include cost-benefit, cost-effectiveness and impact analyses. These methods and techniques are applied to issues such as health care, deregulation, wildlife, and resource investment.

ECON 210-3 Introduction to Health Economics and Policy This course provides a general understanding of health and health care from an economic perspective. It introduces models of health production and discusses the socio-economic determinants of health. Topics consideredmay include the efficient and equitable allocation of scarce resources in health, alternative methods of health care financing and delivery, the effect of health uncertainty on insurance, and the effects of externalities and information asymmetries in the health sector on the behaviour of health care providers and receivers. Issues of health policy in Canada, including those for remote and rural areas, and other countries are examined.

Prerequisites: None Precluded: ECON 110-3

ECON 220-3 Global Economic Shifts This course examines the shifting spatial dynamics of the world economy. Trends in global production, trade, and investment over the past 200 years are analyzed and the reasons for these shifts discussed. Contemporary dimensions of globalization are identified with a focus on examining the rise and re-emergence of new global powers such as Brazil, Russia, India and China.

Prerequisites: None Precluded: ECON 120-3

ECON 300-3 Labour Economics An examination of the Canadian labour market. The course considers labour demand and supply, wages and terms of employment, wage structures and differentials, education and training, unemployment, unions, and selected labour market policies.

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor

ECON 301-3 Women and the Economy This course examines women's economic situations in Canada and other industrialized economies. Labour market topics such as why women earn lower wages than men, occupational segregation, and the international division of labour are considered. Other topics include the unequal distribution of resources within the household, pay equity, and the feminization of poverty; attention is paid to public policies relating to these issues.

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor or COMM 230-3
Precluded: COMM 333-3

ECON 305-3 Environmental Economics and Environmental

Policy This course is an introduction to environmental economics emphasizing the relationship between economic activities and environmental quality. It introduces students to frameworks for measuring environmental costs and benefits, and evaluating the efficiency and equity of environmental policies. Local and global environmental issues, including ozone depletion and climate change, are analyzed.

Prerequisites: ECON 100-3 or permission of the instructor

ECON 307-3 Northern BC in the Global Economy This course compares the economic characteristics of Northern BC with other Canadian regions. Regional development in the context of global economic integration is examined. Past and present regional economic development programs and initiatives taken by various levels of government are analyzed and contemporary resource projects discussed..

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor

Precluded: ECON 407-3

ECON 308-3 International Economic Relations Trade theory, multilateral institutions (such as the World Bank and International Monetary Fund), trading blocs (such as NAFTA), internationalization of finance, world debt, North-South relations.

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor

ECON 310-3 Intermediate Microeconomic Theory This course examines the main principles and techniques of economic analysis in their application to modern theories of price, production, distribution and theory of the firm.

Prerequisites: ECON 100-3, ECON 101-3, MATH 152-3 or MATH 100-3, or permission of the instructor

ECON 311-3 Intermediate Macroeconomic Theory Concepts and methods of analysis of macroeconomic variables: consumption, investment, government and foreign trade. Classical and Keynesian models compared; analysis of economic statics and dynamics.

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor

ECON 312-3 Introduction to Econometrics In this course, simple linear regression, maximum likelihood estimators, and multiple regression are used in applied economic analysis. Students are introduced to various software programs.

Prerequisites: ECON 100-3, ECON 101-3, ECON 205-3, MATH 150-3, MATH152-3 or MATH 100, or permission of the instructor

ECON 315-3 Economics of Social Policy Examination of public expenditure with specific reference to health, education and social security. Examples will be drawn from various countries.

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor

ECON 317-3 Money, Banking and Financial Institutions An examination of the operations of the Canadian financial system and the impact of monetary policy and regulation on the performance of the economy.

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor

ECON 320-3 Introduction to Mathematical Economics In this course, the mathematical interpretation of fundamental economic concepts such as demand, supply and competitive equilibrium are examined. Calculus is used in the analysis of production and distribution theory.

Prerequisites: ECON 205-3, ECON 310-3, MATH 150-3, MATH 152-3 or MATH 100-3, or permission of the instructor

ECON 321-3 Economics of Developing Countries An analysis of the economic problems and policy choices facing developing countries. The course takes a comparative approach analyzing why some developing countries have been more successful than others.

Prerequisites: ECON 100-3, ECON 101-3 or permission of the instructor

ECON 322-3 Public Finance Examination of selected policy problems from areas of taxation, income security and public expenditures. Examples in Canadian public pension policy, privatization, tax reform and federal-provincial cost sharing programs.

Prerequisites: ECON 100-3, ECON 101-3 or permission of the instructor

ECON 331-3 Forest Economics Economic analysis of private and public forest management. Topics include the measurement of timber and non-timber values, multiple use management, and the regulation of forest practices.

Prerequisites: ECON 100-3, ECON 101-3 or permission of the

instructor

Precluded: ECON 330-4, FSTY 310-3

ECON 350-3 Managerial Economics This course is concerned with the application of economic principles and methodologies to key management decisions within organizations. It provides principles to foster the goals of the organization, as well as a better understanding of the external business environment in which an organization operates. Topics may include: demand, production, and cost analysis; market structure and pricing practices; objectives in private and public organizations; regulation and; entrepreneurship.

Prerequisites: ECON 100-3 and ECON 101-3

ECON 401-3 Global Economy and Development This course analyzes the evolution, and assesses competing theories, of the global economy. The prospects for developing countries within the global economy are examined.

Prerequisites: ECON 100-3, ECON 101-3, and ECON 311-3 or permission of the instructor

ECON 404-3 Poverty, Inequality and Development This course examines the dimensions and causes of poverty and inequality. It analyzes development strategies aimed at reducing poverty and inequality.

Prerequisites: ECON 100-3, ECON 101-3, and ECON 310-3 or permission of the instructor

ECON 410-3 Health Economics In this class economic analysis applied to health care. Topics covered may include models of physician-induced demand, health insurance (private versus national), cost benefit analysis and the evaluation of health technology.

Prerequisites: ECON 100-3 and ECON 101-3, or ECON 210, or permission of the instructor

ECON 411-3 Cost-Benefit Analysis Techniques and problems in cost-benefit analysis. Case studies of projects in the areas of natural resources, the environment, human resources, public services and transportation.

Prerequisites: ECON 100-3, ECON 101-3 or permission of the instructor

ECON 412-3 Applying Economics in the Community In this course, students apply their economics knowledge to a real-world problem or question. Working with a local organization, students will design the methodology to answer the problem or question identified by the organization, engage in collaborative research, and produce a group report. The organization chosen may vary from year to year.

Prerequisites: ECON 310-3 or ECON 350-3, and ECON 311-3, or permission of the Chair

ECON 423-3 Economics Field School This course allows students to learn about the application of economics in specific contexts. Course location varies with instructor and year taken. This course may be repeated to a maximum of 6 credit hours if the course content differs.

Prerequisites: Upper-division standing and permission of the Chair

ECON 425-3 Trade and the Environment This course considers the relationship between different international trade regimes and environmental issues.

Prerequisites: ECON 100-3, ECON 101-3, or permission of the instructor

ECON 435-3 Financial Economics and Quantitative

Methods This course explores the theoretical and conceptual foundations of financial economics. The course also includes the study of quantitative methods for testing some of the basic financial propositions in finance.

Prerequisites: ECON 100-3, ECON 101-3 and ECON 205-3

ECON 440-(3-6) Internship

Prerequisites: Upper-division standing and permission of Program Chair

ECON 451-3 Advanced Microeconomic Theory This course examines selected topics in microeconomics.

Prerequisites: ECON 310-3, ECON 311-3, or permission of the instructor

ECON 498-(3-6) Special Topics in Economics

Prerequisites: Upper-division standing

ECON 499-(3-6) Independent Study

Prerequisites: Upper-division standing and permission of Program Chair

Education (EDUC)

Effective September 2017 a new program for the various education streams comes into effect. As students already within the BEd Program will require previous 400 lvl courses, both the new and retiring courses have been included for reference. Any courses changing in the new program are noted with ** ** statements are the end of the description.

EDUC 101-3 Introduction to Education This course is intended to provide students with an understanding of the basic issues facing elementary and secondary teachers in Canadian schools. The topics to be covered include social, emotional, cognitive and physical development, classroom management, social and economic issues, gender, multiculturalism, teacher characteristics, special needs, and reflective practice. It introduces students to the values, concepts, expectations, and responsibilities of classroom teachers. The course will also acquaint students with the British Columbia Teachers' Federation Guide to Professional Practice.

EDUC 176-3 Mathematics and Aboriginal Culture This course explores the use of mathematics within cultural contexts. The focus is primarily on Aboriginal perspectives, and the use of math as it pertains to daily life and traditional practices. Attention is given to classroom applications and hands-on learning.

EDUC 187-3 Science and Aboriginal Culture This course is an exploration of how science is used and understood within cultural practice. The focus is primarily on the integration of the scientific method and Aboriginal ways of knowing, combining current scientific theory with cultural knowledge. Attention is given to classroom applications and hands-on learning.

EDUC 201-3 Education Theory and Practice In this course, students will extend their understanding of contemporary educational issues. The course introduces theoretical models of curriculum and instruction, as well as provincial curricular guidelines. Students will reflect on practical aspects of teaching and learning, and they will identify their own beliefs and aims with respect to teaching. This course builds on and complements the topics addressed in EDUC 101-3.

Prerequisites: EDUC 101-3

Note: This course is a general introductory course and not part of the BEd program, Post-Degree Bachelor of Education Program

EDUC 313-1 Interpersonal Communication An introduction to basic interpersonal communication skills applicable to teaching across the grade levels. The course focuses on developmentally appropriate and effective communication in one-to-one, small-group, and whole-class contexts when listening, imparting information, giving instructions, and facilitating discussion. Other topics include: understanding diverse perspectives, establishing equitable discourse opportunities, reflective listening, negotiation, and problem-solving.

EDUC 315-4 Curriculum & Instruction: II (Business and Career Education) Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instructional, and evaluation methods pertaining to the teachable subject areas.

Prerequisites: EDUC 360-4

EDUC 333-2 Learning, Development & Motivation Human social, emotional, cognitive, linguistic, and physical development and learning across the lifespan. In particular, the emphasis is children's and adolescents' development during the school years and implications for teaching and learning. Topics will include: theories of development; age-related social, behavioural, and academic expectations; developmental diversity; social, cultural, and gender bases of identity; and the teacher's role in creating developmentally appropriate, nurturing environments for learning. Students will complete a term project relevant to their educational stream (Early Years or Senior Years).

EDUC 336-4 Learning and Diveristy: Inclusive Classrooms/
Learning Disabilities This course addresses individual differences
and inclusion based on the premise that all students have individual
differences in their experiences, skills, knowledge, perspectives and
cultural beliefs. Curricular materials and instruction must be selected,
designed, and adapted to include all learners. Additionally, it explores
the theoretical bases of multicultural education policies and practices,
learning disabilities; and strategies for assessment, instruction,
and coordination of resources to support learners with learning
disabilities across developmental levels. This course introduces the
characteristics and educational implications of Fetal Alcohol Syndrome
Disorder, Autism, ADHD, ESL, etc., and explores practical instructional
approaches.

EDUC 340-2 Curriculum Development Models Practical approaches to the development and evaluation of curricula, placed within a theoretical framework. Topics will include epistemological foundations of curriculum, curricular integration and disciplinarity, sociocultural perspectives and equity, collaborative development, evaluative purposes and approaches, curricular leadership, and the teacher as researcher. This course prepares students for curriculum and instruction pedagogy courses in specific subject areas.

EDUC 341-2 Principles of Instruction This course embeds theoretical foundations and practical applications of instructional psychology within the context of elementary and secondary school settings. The course is based on a model of professional inquiry to explore some of the contemporary theories that support student learning. It requires teacher candidates to explore inquiry-based learning within an adult context which leads student-based inquiry learning in their classrooms.

EDUC 342-2 Social Dynamics of Classrooms This course addresses the social dynamics of classrooms and introduces contemporary approaches to classroom management. Through a combination of lecture, discussion, small group activities, and case analysis, we will address the following central topics: foundations of classroom management, interpersonal relationships in classrooms, effective instruction to promote learning and motivation, classroom organization and management, and approaches to exceptional cases. Students will interrogate their own assumptions about the roles of teachers and students, and will develop practical strategies for classroom management and discipline.

EDUC 345-3 Language and Literacy Across the Curriculum
this course, Senior Years students study the role of language as
a medium of teaching and learning, and develop approaches to
integrating spoken and written language across subject areas to
enhance learning. The course includes a substantive focus on English
as a Second Language/English as a Second Dialect. Other topics
include the nature of language, classroom discourse, narrative, and
journals, the construction of meaning, writing and cognition, and
diverse oral and literate traditions. The course includes a focus on
strategies for integrating language within specific subject areas.

EDUC 346-2 Introduction to Aboriginal/Indigenous

Education This course introduces the diverse meanings of the term "Aboriginal/Indigenous education." The concepts of power, control, and culture help students to analyze contemporary issues surrounding Aboriginal/Indigenous education and Western education. Topics include historical analysis, current models, defining Aboriginal/Indigenous education, and contemporary issues. Students build their knowledge and understanding of Aboriginal/Indigenous approaches to education.

EDUC 351-2 Curriculum and Instruction: Second Language (EY)

Curriculum and instruction methods for teaching a second language in the Early Years. The language offered may be French, or another provincially approved second language, such as a local First Nations language.

EDUC 356-2 Language and Literacy: Development (EY) An introduction to the nature of language and literacy, and their development prior to and during the early years of schooling. The course will focus on the components of language, how they develop in oral and written forms, and diversity among learners in language and literacy development. Students will learn the curricular expectations for grades K to 5 for listening, speaking, reading, writing, and spelling, and will be introduced to instructional strategies for oral language and emergent/early literacy.

EDUC 357-4 Language and Literacy: Reading & Writing (EY)

This course examines theoretical models of reading, spelling, and writing processes during the early years. It also includes practical skills and experience in assessing reading, writing, and spelling, planning instruction in these areas, using curricular and other resources, and adapting instruction for diverse learners.

Prerequisites: EDUC 356-2

EDUC 358-3 Language and Literacy: Reading & Writing, and Inquiry Content This course provides current models of early years reading and writing as well as content inquiry processes. It also includes assessment tools for reading, writing, and spelling. Students experience planning instruction in these areas. Adaptions and extensions in instruction and assessment across diverse learners are explored and shared.

EDUC 360-4 Curriculum and Instruction: Introduction (SY)Curriculum and instruction methods for the Senior Years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the

teachable subject areas.

Pre- or Co-requisite: EDUC 340-2

EDUC 361-4 Curriculum and Instruction: II (Humanities and Social Sciences)Curriculum and instruction methods for the Senior Years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

Prerequisites: EDUC 360-4

EDUC 366-2 Curriculum and Instruction: Social Studies (EY)

The theory and practice of social studies education in the early years, including objectives, teaching and assessment approaches, curricular models, and resources/materials. Students will examine the nature and purposes of social studies, and will become familiarized with the BC social studies curriculum for the early years, as well as with accessing, selecting, and developing curricular materials. The course will emphasize strategies for thematic instruction, and integration of social studies themes across the curriculum.

EDUC 370-3 Numeracy Across the Curriculum (SY) An exploration of the role of numeracy in society and across disciplines. This course includes strategies for fostering quantitative literacy across Senior Years subject areas.

EDUC 372-4 Curriculum & Instruction: II (Math, Computers, and Sciences) Curriculum and instruction methods for the Senior Years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

Prerequisites: EDUC 360-4

EDUC 376-2 Numeracy: Math Concepts (EY) This course prepares prospective teachers to teach early years mathematics by 1) improving their knowledge of mathematics, 2) introducing them to the development of numeracy in young children, 3) familiarizing them with the BC mathematics curriculum for the early years; and 4) building connections between mathematical knowledge, development, curricular guidelines, and instructional strategies.

EDUC 377-2 Numeracy: Instructional Strategies (EY) Topics include accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to early years mathematics. Instructional strategies will emphasize problem solving, learning with manipulatives, mathematical language, group work, and other process-oriented approaches, as well as choosing and using resources such as math manipulatives and Montessori materials, print materials, computer software, videos, and calculators. Students also will explore ways to integrate numeracy across the curriculum, such as through thematic instruction.

Prereauisites: EDUC 376-2

EDUC 380-3 Foundations of Education Introduction to the historical, philosophical, psychological, and sociological foundations of education. Students will reflect on their beliefs about education and teaching, including their assumptions about gender, culture, race, and social class. This course will include an emphasis on the historical roots of present educational institutions and approaches, and change processes in education as applied to contemporary Canadian social and educational contexts.

EDUC 387-2 Curriculum & Instruction: Science (EY) Students will be introduced to the theory and practice of teaching children science, and the BC curriculum. The course addresses curriculum and instruction methods for the early years, including accessing, selecting, and developing curricular materials and activities; and planning, instruction, and evaluation methods pertaining to early years science. Students also will explore ways to integrate science across the curriculum, such as through thematic instruction.

EDUC 390-3 Classroom Practice and Seminar I Three-weekequivalent practicum, comprising observations and supervised practical experience in a school, along with weekly seminars with team members addressing ongoing practice issues such as: practical skills, case management, reflection, problem-solving, accessing resources, professional issues, teacher research, and portfolio development. Graded on a Pass/Fail basis.

Pre- or Co-requisite: Secondary Years: EDUC 360-4; Elementary Years: EDUC 356-2 and 376-2

EDUC 391-3 Classroom Practice and Seminar II Three-week-equivalent supervised practical experience in a school, along with weekly seminars with team members addressing ongoing practice issues such as: practical skills, case management, reflection, problem-solving, accessing resources, professional issues, teacher research, and portfolio development. Graded on a Pass/Fail basis.

Prerequisites: EDUC 390-3

Pre- or Co-requisite: Secondary Years: EDUC 345-4, 370-3, and one of EDUC 315-4, 361-4, or 372-4; Elementary Years: EDUC 351-2, 357-3, 366-2, 377-2, and 387-2

EDUC 392-3 Classroom Practice and Seminar: First Nations Language and Culture This three-week equivalent practicum provides teacher candidates enrolled in the Education Diploma in a First Nations Language and Culture program (Elementary Years) with supervised practical experience in a school classroom setting that offers, as part of its mandate, instruction in a First Nations Language and Culture. As part of the practicum experience, weekly seminars address ongoing practical issues confronting teachers of First Nations languages and cultures including pedagogy, classroom management, reflection, learning resources, and professional concerns. The course is graded on a Pass/Fail basis.

Prerequisites: EDUC 390-3

Pre- or Co-requisites: EDUC 333-2, EDUC 341-2, EDUC 342-2, EDUC 351-2, EDUC 356-2, EDUC 380-3, EDUC 435-2, EDUC 446-2

EDUC 396-2 Reflective Seminar In this course, students reflect on their experiences in Aboriginal Language and Culture classrooms and compare those teaching contexts with curriculum and instruction expectations in cross-curricular classrooms. The course reviews theoretical models of curriculum and instruction and provincial curricular guidelines across the elementary curriculum.

Prerequisites: An Education Diploma in a First Nations Language and Culture, or equivalent
Precluded: EDUC 346-2

EDUC 406-3 Curriculum and Instruction: Fine Arts (EY)

Introduction to the role of music, visual arts, dance, and drama in teaching and learning during the early years. The course includes a focus on appreciating the arts of our diverse communities and understanding children's expressive development, as well as practical approaches to teaching these arts, using tools for art-making, and providing contexts for the performance arts. Strategies for incorporating music, imagery and performance across the curriculum will be emphasized.

EDUC 407-3 Curriculum and Instruction: Fine Arts/Physical and Health Education (EY) Introduction to the role of music, visual arts, dance, and drama in teaching and learning during the early years. The course includes a focus on appreciating the arts of our diverse communities and understanding children's expressive development, as well as practical approaches to teaching these arts, using tools for artmaking, and providing contexts for the performance arts. Strategies for incorporating music, imagery and performance across the curriculum will be emphasized. ** This course will not be offered until September 2018 **

EDUC 413-1 Interpersonal Counselling Skills (EY abd SY) This course is an introduction to the role of the classroom teacher related to collegial work with counsellors, support personnel, school-based teams, and families. Topics include working with parents, working with the school-based team, understanding the role of the school counsellor, communicating with teaching assistants, accessing resources, and teaching Career Education K-12. ** This course will become 2 credits in September 2018 and be included in both elementary and secondary stream requirements **.

EDUC 414-5 Curriculum & Instruction: III (Business and Career Education) Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instructional, and evaluation methods pertaining to the teachable subject areas.

Prerequisites: EDUC 315-4

EDUC 415-3 Curriculum & Instruction: IV (Business and Career Education) Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instructional, and evaluation methods pertaining to the teachable subject areas. ** This course will no longer be offered effective September 2018 **

Prerequisites: EDUC 414-5

EDUC 421-3 Classroom Assessment Practices A critical examination of the purposes, utility, and limitations of classroom assessment and evaluation. Students will learn to select appropriate assessment processes and instruments to evaluate the academic, social, and emotional abilities/needs of the children/adolescents in their classrooms and to plan to evaluate instruction. They will learn to design and interpret assessment processes and instruments, and to implement a fair grading system. The course will include a focus on authentic assessment, portfolios, standardized testing, curriculumbased assessment, conferencing, and reporting.

EDUC 431-3 Educational Technology This course is intended to provide students with the understanding and skills needed to effectively integrate computer based technology in an educational setting. The topics to be covered focus on the use of technology in a school setting and include operations and concepts, curriculum plans, assessment and evaluation, productivity and professional practice, and technology issues (OS and DOC Platforms). It introduces students to the values, concepts, expectations, and responsibilities of classroom teachers with respect to technology and issues arising from its use.

EDUC 434-3 Counselling Skills (SY) An introduction to the role of the classroom teacher related to CAPP, collegial work with counsellors, support personnel, school-based teams, and families. Topics include: working with parents, working with the school-based team, understanding the role of the school counsellor, communicating with teaching assistants, and accessing resources; as well as teaching career and personal planning from grades 9–12. The course will also introduce teaching approaches and support systems that help students develop and maintain positive achievement-oriented beliefs, that foster their motivation for school learning, and that help them stay in school and experience success in school contexts. ** This course will no longer be offered effective September 2018 **

EDUC 435-2 Learning & Diversity: Inclusive Classrooms

This course addresses individual differences and inclusion based on the premises that all students have individual differences in their experiences, skills, knowledge, perspectives, and cultural beliefs; and that curricular materials and instruction must be selected, designed, and adapted to include all learners. Within this wider philosophical framework, particular focuses of the course will include: history of special education and contemporary approaches; working with students with physical, intellectual, or emotional/behavioural challenges or talents; individualized education plans; assessment; the team approach; and accommodating social, cultural, and linguistic diversity.

EDUC 436-2 Learning & Diversity: Learning Disabilities

This course explores the theoretical bases of learning disabilities; and strategies for assessment, instruction, and coordination of resources to support learners with LD across the developmental levels. Characteristics and educational implications of Fetal Alcohol Syndrome/Effects also will be introduced, and practical instructional approaches explored.

EDUC 441-3 Innovative Community-Based Approaches to Responsive Education (EY) This integrated course focuses on community-based and locally-based project development. Children's fiction, non-fiction and other materials are used across academic subjects and developmental areas to plan classroom projects, produce a professional portfolio, and explore the role of the classroom teacher in collegial work. ** This course will not be offered until September 2018 **

EDUC 446-2 Aboriginal/Indigenous Education:

Epistemology This course is an introduction to Aboriginal/Indigenous epistemology. Central to this study are the thinking and listening processes of orality. Oral history stories provide a unique way to know and to understand the world. Topics include Aboriginal/Indigenous epistemology, Aboriginal/Indigenous education metatheory, orality, Aboriginal/Indigenous spirituality and education, and Aboriginal/Indigenous curricula, and phenomenology.

EDUC 456-2 Language & Literacy: Across the Curriculum (EY)

In this course, students will study the role of language as a medium for teaching and learning in the early years, and develop approaches to integrating spoken and written language across subject areas such as language arts, math, music, science, and social studies. The course includes a substantive focus on English as a Second Language/English as a Second Dialect. Other topics include: classroom discourse, construction of meaning, narratives and journals, writing and cognition, and diverse oral traditions. The course includes a practical focus on learning to use effective instructional language, designing thematic instruction, creating literacy-rich classroom environments, providing diverse routes to learning, and managing student discussion in whole-class and small-group contexts.

Prerequisites: EDUC 357-3

EDUC 457-2 Language & Literacy: Oral & Written Genres (EY)

An introduction to children's literature in the early years, including the various fiction and nonfiction written genres, and oral storytelling. Practical emphases of this course include learning to select and use children's literature, as well as language arts resources and materials, to plan instruction that fits with curricular aims and individual learners' needs. Students will become familiar with the role and resources of the school library and teacher-librarian. ** This course will no longer be offered effective September 2018 **

Prerequisites: EDUC 456-2

EDUC 460-5 Curriculum & Instruction: III (Humanities Social Sciences) Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

Prerequisites: EDUC 361-4

EDUC 461-2 Curriculum and Instruction: IV (Humanities Social Sciences) Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.** This course will no longer be offered

effective September 2018 **

Prerequisites: EDUC 460-5

EDUC 471-5 Curriculum & Instruction: III (Math, Computers, and Sciences) Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.

Prerequisites: EDUC 372-4

EDUC 472-2 Curriculum & Instruction: IV (Math, Computers, and Sciences) Curriculum and instruction methods for the senior years, including accessing, selecting, and developing curricular materials; and planning, instruction, and evaluation methods pertaining to the teachable subject areas.** This course will no longer be offered effective September 2018 **

Prerequisites: EDUC 471-5

EDUC 489-2 Curriculum & Instruction: Physical Education (EY) Foundational and instructional basis for planning and implementing physical education programs in the early years.

EDUC 490-4 Classroom Practice and Seminar III Four week supervised practicum in a school, along with weekly seminars with team members addressing ongoing practice issues such as: practical skills, case management, reflection, problem-solving, accessing resources, professional issues, teacher research, and portfolio development. Graded on a Pass/Fail basis.

Prerequisites: EDUC 391-3

Pre- or Co-requisite: Secondary Years: One of EDUC 414-5, 460-5, or

471-5; Elementary Years: EDUC 456-2 and 406-3

EDUC 491-10 Classroom Practice and Seminar IV This course is a full-time ten week supervised practicum in a school. It includes weekly seminars with team members that address ongoing practice issues such as practical skills, case management, reflection, problemsolving, accessing resources, professional issues, teacher research, and portfolio development. This course is graded on a Pass/Fail basis.
*** the credit value of this course changes to 6 credit hours effective September 2018 **

Prerequisites: EDUC 490-4

Pre- or Co-requisite: Secondary Years: One of EDUC 415-2, 461-2, or 472-2; Elementary Years: EDUC 457-2 and 489-2

**Effective September 2018 Pre- or Co-requisite: Secondary Years: One of EDUC 415-2, 461-2, or 472-2; Elementary Years: EDUC 407-4 and 456-2 **

EDUC 495-1 Professional Issues: Portfolios This seminar will focus on presentation and evaluation of teacher candidates' professional portfolios developed over their past two years of study and practical experience. Other topics will include the transition to work, and developing a personal plan for ongoing professional development.** This course will no longer be offered effective September 2018 **

Pre- or Co-requisite: EDUC 395-1

EDUC 500-3 Teacher Leadership This course is based on the premise that all teachers can engage in teacher leadership through formal or informal roles to influence social conditions and instructional effectiveness within and beyond their classrooms. Students prepare for leadership opportunities by exploring strategies for goal setting, enhancing communication and trust, motivating and energizing colleagues, and implementing change for improved teacher and student achievement. There is an emphasis on how to build communities of practice or professional learning communities in school contexts.

EDUC 501-3 Action Research in Schools and Classrooms This course introduces action research as a strategy for learning about teaching and learning processes and improving classroom practice, often in collaboration with other educators. Course topics include the value of action research, action research processes, examples of action research projects from a variety of schools and classrooms, and keys to planning and reporting successful action research projects. An outcome of the course is that teachers will acquire the skills and tools of action research to implement and adapt innovations in specific educational contexts.

EDUC 502-3 Interpretation and Application of Educational

Research This course exposes teachers to both quantitative and qualitative educational research. Students are expected to read and interpret research in the literature. Successful students may plan to apply existing research knowledge in classrooms and schools or to develop new knowledge related to implementation of innovations in their own settings.

EDUC 504-3 Instructional Leadership for Cooperating

Teachers This course is open to classroom teachers who have sponsored an extended practicum for a UNBC B.Ed student. The course consists of an orientation workshop, the practicum itself, and a final weekend seminar to reflect on mentorship experiences in light of the instructional leadership literature.

EDUC 521-3 Classroom Assessment Practices This course examines the relationships between the purposes and practices of classroom-based assessment and evaluation. Teachers will consider the roles of formative and summative assessment, including dynamic assessment, curriculum-based assessment, portfolios, conferencing, and standardized testing; and the implications of such practices for grading, instructional approaches, school achievement, and planning for diverse students. Emphasis on the practical component allows exploration of effective assessment practices and interpretation of assessment results, as well as responses to current trends in educational evaluation.

EDUC 523-3 Teaching for Social Responsibility This course explores the implications of improved social responsibility as a school or district improvement goal, and assists teachers in developing classroom and school wide strategies to achieve that goal. Course topics include personal planning curricula, social dynamics, and strategies for improving communication, relationships, and community identity in classrooms and schools.

EDUC 528-3 Numeracy Strategies for Struggling Learners This course is an overview of diagnostic and remedial strategies for mathematics. Students will be provided with an overview of individualised assessment, including formal standardised instruments, informal tests, and classroom-based tools and instruction on remedial strategies specific to math errors and deficiencies. There will also be a field application in the form of a brief math clinic in which the students will work in a semi-supervised setting with one remedial math child out of which a final report will be produced.

EDUC 531-3 Applications of Educational Technology This course introduces students to the various computer programs available to practising teachers with a particular emphasis on construction of webbased resources. As well, it examines the role of computer technology as a teaching and learning resource in contemporary educational environments.

EDUC 533-3 Human Development: Implications for

Education Contemporary theories of human development are examined along with their implications for teaching and counseling children, adolescents, and adults. The course invites teachers to identify the theories that guide their own practice and make plans to implement espoused theories more consistently.

EDUC 534-3 Achievement Motivation This course addresses current literature on achievement motivation, grounded in practical classroom and school-based examples. The examination is practice oriented and teachers focus on shaping inferences from the literature for local application. A central issue is how teachers can understand and foster students' motivation for school learning.

EDUC 535-3 Learning & Diversity: Inclusive Classrooms This course addresses individual differences and inclusion based on the premises that all students have individual differences in their experiences, skills, knowledge, perspectives, and cultural beliefs: and that the curricular materials and instruction must be selected, designed, and adapted to include all learners. Within this wider philosophical framework, particular focuses of the course will include: history of special education and contemporary approaches; working with students with physical, intellectual, emotional/behavioural challenges or talents; individualized education plans; assessment; the team approach; and accommodating social, cultural, and linguistic diversity.

EDUC 541-3 Principles of Instruction This course provides an examination of current instructional trends and strategies and the opportunities and challenges in their implementation. Teachers will be encouraged to identify, reflect on, and expand their curriculum planning tools and instructional repertoires.

EDUC 546-3 First Nations Education This course reviews the diverse meanings of First Nations or Aboriginal education. The concepts of power, control, and culture will help teachers analyze current practice. Topics include: historical analysis, contemporary issues, and promising practices for increasing Aboriginal school success. Teachers will build their knowledge and understanding of Aboriginal approaches to education.

EDUC 551-3 Mathematics Education This course provides a critical examination of current practices and emerging trends in K-12 mathematics curriculum planning and instruction. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

EDUC 552-3 Course Title: Science Education This course provides a critical examination of current practices and emerging trends in K-12 science curriculum planning and instruction. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

EDUC 553-3 Social Studies Education This course provides a critical examination of current practices and emerging trends in K-12 social studies curriculum planning and instruction. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

EDUC 554-3 Literacy Strategies for Struggling Learners This course introduces participants to the diagnostic assessment of reading problems and the planning, development and use of instructional strategies that address struggling readers' identified needs. The course will involve a practicum component that includes the diagnostic assessment of struggling readers and the subsequent planning, instruction, and reporting of the assessment and intervention. The course is intended for teachers wishing to further develop their diagnostic literacy assessments, planning, and instructional repertoires in classroom settings.

EDUC 558-3 Language Arts Education This course provides a critical examination of current practices and emerging trends in K-12 language arts curriculum planning and instruction, including aspects of language, literacy, and literature. Topics will include the writing process, reader response, and children's or young adult literature as well as current approaches to teaching reading. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

EDUC 559-3 Second Language Instruction This course provides a critical examination of current practices and emerging trends in K-12 second language curriculum planning and instruction. The language offered may be French or another provincially approved second language, such as a local First Nations language. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

EDUC 570-3 Montessori Theory This course is designed to provide a comprehensive overview of the Montessori preschool years (ages 3-6). It includes lectures and seminars on Montessori educational theory, philosophy, and preschool curriculum. The course is required of students who are not Montessori 3-6 certified.

EDUC 571-3 Montessori Curriculum and Instruction This course prepares the student to implement an integrated approach to language literacy and cultural studies consistent with Montessori pedagogy. Demonstration, lecture presentations, small group discussion, and supervised practice with materials are utilized.

EDUC 572-3 Montessori in Context (Child

Development) Students examine Maria Montessori's philosophical beliefs. The integration of philosophy, current research in the area of child development, and content pedagogy is the focus of this component of the program. Lecture presentations, small group discussion, and independent and small group research projects are utilized.

EDUC 573-3 Montessori Curriculum and Instruction – Scientific Literacy This course focuses on the development and refinement of knowledge and skills necessary for full implementation of the Montessori approach to Cosmic Education and the elementary cultural studies curriculum. The course provides a constructivist approach to the integration of Cosmic Education, Science and Practical Life/ Technology. Through hands on experience, research, small group projects, lecture, and demonstration students develop and refine competency in scientific literacy.

EDUC 574-3 Montessori Curriculum and Instruction – Mathematics Education This course is designed to prepare the student to present the Montessori mathematics curriculum and facilitate the development of mathematics in a Montessori Elementary class (ages 6-12). Demonstration, lecture presentations, and supervised practice with didactic materials provide links between Montessori pedagogy and mathematical concepts.

EDUC 575-3 Montessori Integrated Cultural Studies and Field Study Planning In this course, students research, design, and demonstrate appropriate materials and activities that reflect an integration of history, geography, the sciences, and creative arts. Topics include the scope and importance of movement, nutrition and physical exercise for the development of the whole child and an understanding of an integrated and interdisciplinary approach to education and an ability to apply Montessori principles in preparation for a field study and portfolio. Lecture, demonstration, field trips, discussion, participation in physical activities, and individual research projects are utilized.

EDUC 576-3 Montessori Integrated Cultural Studies Field

Study The function of the Field Study/Practicum Phase is to provide for the student a supervised teaching/learning experience and a period of observation, internalization, and further study, to bring together the theory and practice of Montessori Education.

EDUC 577-3 Montessori Portfolio This course is the culmination of the Montessori Education Program and results in the production of a print-based or electronic portfolio. Students provide artifacts from their coursework and professional experience that demonstrate a definite understanding of the Montessori theory and practice. The media include video, audio, student assessment, and any related evidence.

EDUC 580-3 Visual Arts Across the Curriculum This course provides an exploration of the role of the visual arts (drawing, painting, sculpture, mixed media) for teaching and learning in the K-12 curriculum. Strategies for incorporating the visual arts as means of expressing learning in subject areas across the curriculum will be emphasized. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

EDUC 581-3 Performing Arts Across the Curriculum This course provides an exploration of the role of the performing arts (music, dance, and drama) for teaching and learning in the K-12 curriculum. Strategies for incorporating the performing arts as means of expressing learning in subject areas across the curriculum will be emphasized. Teachers may elect to focus on either the elementary or secondary level of the curriculum.

EDUC 592-3 Special Topics Topics to be determined by the special interests of students and the availability of faculty members to teach those topics. Special topics courses at this level will emphasize the analysis and improvement of classroom practice in light of current literature. There is no limit to the number of special topics courses that can be taken as credit toward a Post-Baccalaureate Diploma.

EDUC 593-3 Directed Readings This course provides an opportunity for students to study an educational topic relevant to their program. Directed readings courses at this level will emphasize the analysis and improvement of classroom practice in light of current literature. The delivery of directed readings courses is subject to the availability of instructors.

EDUC 594-3 Self-Directed Professional Development This

course provides practicing teachers with current views of effective professional development in light of movements toward standards and accountability. Students will engage in a comprehensive analysis of their practice to date and build a professional portfolio to reflect their achievements. An outcome of the course will be the construction of a portfolio and professional growth plan that builds on past successes and strengths and addresses areas identified as underdeveloped.

English (ENGL)

ENGL 100-3 Introduction to Literary Structures This course provides an introduction to the reading of the three major genres: poetry, fiction, and drama. The course introduces the students to the basic structural principles and rhetorical strategies of literary texts by observing structural and rhetorical theory applied to specific poems, fictions, and plays.

Prerequisites: None

ENGL 102-3 Introduction to Poetry This course provides an introduction through a detailed examination of a range of poetic texts. Students are taught how to construct an argument, and how to assemble and present an academic essay. There is regular practice in writing well. The course includes library research and an oral presentation, and may also include computer skills.

Prerequisites: None

ENGL 103-3 Introduction to Fiction This course provides an introduction to the reading of fiction through a detailed examination of a range of narrative texts (e.g., the novel, short fiction).

Prerequisites: None

ENGL 104-3 Introduction to Film This course provides an introduction to the study of film through a detailed examination of a range of films

Prerequisites: None

ENGL 120-3 Introduction to Canadian Native Literatures This course offers an introduction to the study of Canada's Native literatures, including traditional oral narratives, drama, poetry, and fiction.

ENGL 170-3 Writing and Communication Skills Students will be taught how to construct an argument, and how to assemble and present an academic essay. There will be regular practice in writing well. The course includes library research and an oral presentation, and may also include computer skills.

Prerequisites: None

ENGL 200-3 Gender and Literary Theory This course provides an introduction to critical analyses of gender and their implications for literature. Students have the opportunity to gain an overview of some current topics in gender theory.

Prerequisites: None Precluded: WMST 220-3

ENGL 201-3 Computing in the Humanities This course provides an introduction to the growing use of computer technology in the humanities, including word processing/desktop publishing, research using databases, electronic concordances and bibliographies, and electronic publishing on the World Wide Web. Instead of a research paper, students create a personal home page which reflects the material learned in the class. Classes incorporate work on the computing platforms available to students at UNBC.

Prerequisites: None

ENGL 204-3 Introduction to Television and Film Production This course offers an introduction to the theory and practice of television and film production.

Prerequisites: ENGL 104-3

ENGL 205-3 Fiction This course examines selected trends in the development of the novel or short story, or of a particular mode or genre of representation. See the English Department handbook for details. (Students may have already received credit for ENGL 203-3 or ENGL 204-3, but not both).

Prerequisites: None

Precluded: one of ENGL 203-3 or ENGL 204-3

ENGL 209-3 Introduction to Television Studies This course introduces students to the academic study of television. Individual instructors may choose to focus on fiction or non-fiction or include both.

ENGL 210-3 Women and Literature: A Survey This course is a survey of works of poetry and fiction written by women in English from the Renaissance to the present. The course considers feminist theory and criticism in relation to these works.

Prerequisites: None Precluded: WMST 221-3

ENGL 211-3 Survey of English Literature I This course provides a survey of literature in English from the medieval period (c. 10th century) to the late 18th century.

Prerequisites: One of ENGL 100-3, ENGL 102-3, ENGL 103-3, ENGL 104-3

or Co-requisites: One of ENGL 100-3, ENGL 102-3, ENGL 103-3, ENGL 104-3

ENGL 212-3 Survey of English Literature II This course provides a survey of literature in English from the late 18th century to the present.

Prerequisites: ENGL 211-3

ENGL 231-3 An Introduction to Canadian Literature This course provides a survey of Canadian literature.

Precluded: ENGL 330-3

ENGL 260-3 A Survey of Children's Literature This course provides an historical survey tracing literature written for children in texts as varied as *The Arabian Nights*, and Salman Rushdie's *Haroun and The Sea of Stories*.

Prerequisites: None

ENGL 270-3 Expository Writing This course offers lectures and workshops in the study and craft of non-fictional prose.

Prerequisites: None

ENGL 271-3 Introduction to Creative Writing This course offers introductory lectures and workshops in the craft of writing fiction, poetry, and/or drama.

Prerequisites: None

ENGL 280-3 Shakespeare This course examines selected Shakespearean plays. Some of Shakespeare's non-dramatic poetry may be included. One play by a contemporary of Shakespeare (e.g., Webster, Jonson) may also be considered.

Prereauisites: None

ENGL 281-3 Introduction to Renaissance Literature This course descriptions an introduction to the literature of the English Renaissance in the major genres (poetry, prose and drama).

Prerequisites: None

ENGL 282-3 Introduction to Restoration and 18th Century
Literature This course examines selected works of poetry, prose and drama of the Restoration and 18th century, including authors such as Congreve, Dryden, Pope, Swift, Johnson, Behn and early Jane Austen

Prerequisites: None

ENGL 283-3 Introduction to Romantic Literature This course examines the English Romantic poets: Blake, Wordsworth, Coleridge, Byron, Shelley and Keats. Attention will be paid to women Romantic writers such as Mary Shelley, and the later work of Jane Austen.

Prerequisites: None

ENGL 284-3 Introduction to Victorian Literature This course examines selected texts of poetry, fiction and non-fiction by authors such as Thackeray, George Eliot, Dickens, Charlotte Brontë, Robert Browning, Tennyson, and Christina Rossetti.

Prereauisites: None

ENGL 285-3 Modern British Literature This course examines Modernism in Britain, focusing on the period around the First World War (1900-1930) and concentrating on the following prose writers: Joyce, Lawrence, Woolf and Forster.

Prerequisites: None

ENGL 300-3 Theory This course examines the development of critical theory from Aristotle to the present. Students are introduced to influential literary theories in an historical context, from the classical to the modern.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 304-3 Digital Art This course provides instruction in the theory and practice of digital art

Prerequisites: ENGL 204-3, or permission of the instructor

ENGL 309-3 Intermediate Studies in Film or Television This course undertakes an extensive examination of a range of film or television genres. Individual instructors may choose to focus on film or television or include both.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 320-3 First Nations Literature This course focuses on the contemporary writing of First Nations people in English in Canada and the United States. It examines the implications of colonialism and the strategies that writers use to decolonize, redefine and affirm their identity, history and culture.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 331-3 Genres in Canadian Literature This course focuses on a single genre in Canadian literature such as the short story, the novel, drama, poetry, or non-fiction prose. See the English Department handbook for details.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 340-3 Postcolonial Literature This course examines literature in English written in one or more of the following regions: Africa, the Caribbean, India, Australia, New Zealand. The course offers an introduction to postcolonial literatures, their definitions of culture, and their relation to the British Empire.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 350-3 Comparative Literature This course provides an examination of works in world literature, written in English and other languages, in the context of various literary periods and genres.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 381-3 Renaissance Literature This is an advanced version of the 200-level course, with a particular emphasis on the interaction between the visual and written art forms.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 382-3 Restoration and 18th Century Literature This course provides an intensive study of two or three authors or of a major genre, form or theme of the period.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 383-3 Romantic Literature This course provides an intensive study of two or three authors or of a major genre, form or theme of the period.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 384-3 Victorian Literature This course provides an intensive study of two or three authors or of a major genre, form or theme of the period.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 386-3 19th Century Literature in the United States

This course provides a study of American writing in its historical contexts. The course may include Colonial literature, Contact literature, literature of the American Renaissance, African-American slave narratives, and transcriptions of Native oral literatures.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 390-3 Language This course examines the structure and development of the English language from its beginnings to the present, with close reference to literary texts.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 400-3 Contemporary Theory This course provides an advanced study of current theoretical modes, including feminism and gender theory, deconstruction, postcolonial theory, discourse analysis, new historicism and Marxist theory, psychoanalytic theory, and cultural studies. The course includes an investigation of the critical positions of contemporary theorists.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 404-3 Advanced Television and Film Production This course offers advanced instruction in the theory and practice of television and film production.

Prerequisites: ENGL 104-3, ENGL 204-3, or permission of the instructor

ENGL 409-3 Special Topics in Film or Television Studies This course offers an intensive examination of an area or genre of film or television. Individual instructors may choose to focus on film or television or include both. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or ENGL 309-3, or permission of the instructor

ENGL 410-3 Contemporary Women's Literature This course considers contemporary women writers and their work, emphasizing their cultural diversity and considering them in the context of feminist theory. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor Precluded: WMST 420-3 **ENGL 420-3 Special Topics in First Nations Literature** This course looks at contemporary First Nations writers and their work. Writers may include Thomas King, Gerald Vizenor, Leslie Silko, Louise Erdrich and others. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the material is substantially different.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 430-3 Special Topics in Canadian Literature This is an advanced course in contemporary, multicultural Canadian literature. Authors may include Rohinton Mistry, Rudy Wiebe, Aritha van Herk, or Joy Kogawa, Marlene Nourbese Philip. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 431-3 Northern BC Literature This advanced course in Northern BC Literature focuses on authors such as Barry McKinnon, Eden Robinson, Brian Fawcett, George Stanley, Jacqueline Baldwin, and Ken Belford. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 440-3 Special Topics in Postcolonial Literature This is an advanced course on the main issues of postcolonial literature, such as postcolonial nationalism and English versus native languages. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 444-(2-6) Internship This course may be repeated for credit to a maximum of six credit hours.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 450-3 Special Topics in Comparative Literature This is an advanced version of the 300 level course, focusing on a specific genre, theme or period. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 460-3 Special Topics in Children's Literature This is a special topics course in children's literature and culture. See the English Department handbook for details. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 470-3 Creative Writing - Poetry This course includes lectures and workshops in the craft of writing poetry. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and department Chair if the subject matter of the course differs substantially.

Prerequisites: Permission of the instructor

ENGL 471-3 Creative Writing - Fiction and Creative Non-Fiction

This course includes lectures and workshops in the craft of writing fiction and/or creative non-fiction. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and department Chair if the subject matter of the course differs substantially.

Prerequisites: Permission of the instructor

ENGL 472-3 Creative Writing: Drama or Scriptwriting This course includes lectures and workshops in the craft of writing drama and scriptwriting. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Permission of the instructor

ENGL 480-3 Science Fiction This course studies the structures and motifs of science fiction and fantasy. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 483-3 Special Topics in Romantic Literature This course investigates a particular aspect of Romantic Literature. The focus may be on the works of a specific author or school of authors, a literary genre, or a particular social or theoretical concern. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 484-3 Special Topics in Victorian Literature This course investigates a particular aspect of Victorian Literature. See the English Department handbook for details. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 485-3 Special Topics in Modern and Contemporary
Literature in the United States This course provides a study of
American writing since 1900, with an emphasis on American cultural
contents. The course may focus on a specific author or authors, on a
particular genre, theme or region, or on ethnic and minority literature.
This course may be repeated to a maximum of 6 credit hours with
permission of the instructor and Department Chair if the subject
matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 486-3 Literature of the Fantastic The course examines various periods and aspects of fantastic literature. When appropriate, the course will include film and graphic arts as well as literary texts. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 491-3 Special Topics in Renaissance Literature This course examines various aspects of Renaissance literature and art. The focus could be on the works of a specific author, a genre, or theoretical considerations. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 493-(3-6) Cultural Studies This is a special topics course in cultural studies with a focus on interdisciplinary approaches. See the English Department handbook for details. This course may be repeated to a maximum of 6 credit hours with permission of the instructor and Department Chair if the subject matter of the course differs substantially.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 498-(3-6) Special Topics in Literature Consult the Department Chair for details.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) or permission of the instructor

ENGL 499-3 Independent Study in Literature Consult the Department Chair for details.

Prerequisites: Two lower-division English courses (excluding ENGL 170-3) and permission of the instructor

Engineering (ENGR)

ENGR 110-3 Technical Writing In this course, students acquire practical experience in engineering technical writing for a range of applications. The emphasis throughout is on clarity, precision, and consistency. Course content includes searching and referencing methods using scientific and technical literature, argument development, and document organization. Design scenarios provide the basis for student exercises.

Prerequisites: English 12 or equivalent

ENGR 117-3 Engineering Design I This course teaches problem solving skills specific to engineering design challenges and introduces the engineering design process. Students gain experience through multiple project based design exercises. These are complemented with relevant tours (e.g., wastewater treatment plant) and contact with the local engineering community.

Prerequisites with concurrency: PHYS 110-4 and MATH 100-3 Coreauisites: ENGR 151-1

ENGR 151-1 Engineering Tools I This course provides an introduction to engineering problem solving using common software tools, including spreadsheets and numerical computing software (e.g., Microsoft Excel and MathWorks MATLAB). Case studies provide relevance and serve to bind together many of the topics covered in the course.

Prerequisites with concurrency: PHYS 110-4 and MATH 100-3 Coreauisites: ENGR 117-3

ENGR 152-1 Engineering Tools II This course provides an introduction to engineering problem solving using common software tools, including spreadsheets, CAD and GIS software. Case studies provide relevance and serve to bind together many of the topics covered in the course.

Prerequisites: ENGR 117-3 and ENGR 151-1

ENGR 210-3 Material and Energy Balances This course provides an introduction to the analysis of environmental engineering processes using the laws of conservation of mass and energy. Material and energy balances are applied to open and closed systems, non-reacting and reacting systems, and non-steady state systems.

Prerequisites: Admission to the Environmental Engineering Program Co-requisites: CHEM 200-3, MATH 200-3

ENGR 217-3 Engineering Design II This course explores the problem solving skills specific to Environmental Engineering problems while advancing students' understanding of the egineering design process. Students explore project-based design exercises. This course will also include technical writing skills.

Prerequisites: ENGR 117-3

ENGR 220-3 Engineering Chemistry This course provides an introduction to the properties and composition of natural waters. It explores gas and solid equilibria, pH, redox chemisty, complexation, corrosion treatment, acid rain, ion exchange, colloids and microbial transformations. This course also introduces students to relevant organic chemistry as applicable to environmental engineering.

Pre/Corequisites: ENGR 117-3, CHEM 101-3, CHEM 121-1

ENGR 350-3 Fluid Mechanics This course is an introduction to fluid mechanics for environmental science, engineering, physical geography, forestry and wildlife and fisheries students. The course covers the following topics: definition of fluid, fluid properties, variation of pressure in a fluid, hydrostatics forces, buoyancy, dimensional analysis, similarities, kinematics of flow, control volumes, continuity equation, momentum equation, energy equation, and flow in closed conduits.

Prerequisites: MATH 152-3 or both of (MATH 100-3 and MATH 101-3), and PHYS 100-4 or PHYS 110-4

ENGR 451-3 Groundwater Hydrology This course introduces fundamental principles of groundwater flow and their applications to solve problems related to groundwater resources evaluation, development, and management. Topics include: the role of groundwater in geological process; the occurrence and movement of groundwater; steady-state and transient well hydraulics; aquifer testing techniques, unsaturated flow theory, and groundwater modelling techniques.

Prerequisites: MATH 100-3 and MATH 101-3, or MATH 152-3, or permission of the instructor *Recommended:* ENSC 308-3

Environmental Planning (ENPL)

ENPL 104-3 Introduction to Planning This course introduces students to the practice of planning and an overview of the history, techniques and applications in planning. The course emphasizes the role of the public, politicians, and planners in the field of planning.

Prerequisites: None Precluded: ENVS 104-3

ENPL 204-3 Principles and Practices of Planning This course provides an introduction to, and understanding of, land use planning systems. Land use planning practice is heavily influenced by the legal and institutional structures in place, the values of the society it serves, and the local dynamics that exist. To gain an increased understanding of the importance of the context of planning, this course examines the structure of various land use planning systems, with a detailed focus on the structure and operation of the Canadian system. The course draws heavily upon examples of planning at the provincial and local levels in British Columbia.

Prerequisites: ENPL 104-3 or ENVS 104-3 or permission of instructor Precluded: ENVS 204-3

ENPL 205-3 Environment and Society Interactions between humans and their environments; societal responses to environmental change, both naturally and anthropogenically induced.

Prerequisites: None Precluded: ENVS 205-3

ENPL 206-3 Planning Analysis and Techniques This course provides background knowledge and skills needed for futures studies. The course covers qualitative and quantitative techniques used in the field of planning. Specific areas covered include: scenario and future studies; forecasting, backcasting and other prediction techniques; and policy analysis.

Prerequisites: ECON 205-3 or MATH 242-3 or permission of the instructor

ENPL 207-3 Introduction to Computer Aided Design (CAD) for

Planners This course teaches students the basic functions and application of CAD to the field of community and environmental design. Students apply design theory within the CAD environment producing 2D and 3D models of proposed infrastructure plans.

Prerequisites: Principles of Math 12 or MATH 115-3

ENPL 208-3 First Nations Community and Environmental

Planning First Nations are involved in a broad array of environmental and community planning processes. Some of these processes originate in First Nations communities. Others are established as federal and provincial government or business initiatives. This course lays a foundation for student understanding of these planning processes and their future development.

Prerequisites: None Precluded: FNST 249

ENPL 301-3 Sustainable Communities: Structure and Sociology

This course focuses on the social dimension of planning, including the organization, function, development, and decline of human settlements. Students learn about the sociology of community and the relations between social interaction and physical structures. Topics include social impact assessments, indicators of sustainable communities, and current planning programs (e.g., healthy communities, new urbanism, and Smart Growth).

Prerequisites: None Precluded: ENVS 301-3

ENPL 303-3 Spatial Planning with Geographical Information Systems (GIS) Methods from geographical information science can be used in various ways in spatial planning. The course provides knowledge about the methods from GIS and decision support systems that are most important to planners. The laboratories demonstrate how decision support systems are used within various fields of spatial planning. Emphasis is placed upon urban and rural planning issues and location analysis techniques.

Prerequisites: GEOG 204-3 or GEOG 300-3 or permission of instructor

ENPL 304-3 Mediation, Negotiation and Public Participation

This course is an introduction to the art and practice of mediation, negotiation and public participation processes. The course focuses on basic principles and best practices, and allows students the opportunity to develop their own skills in the subject areas through simulations and observations.

Prerequisites: 60 credit hours

ENPL 305-3 Environmental Impact Assessment This course introduces students to the theory and practice of environmental impact assessment, including the history of environmental impact assessment in Canada and abroad, the methods used in environmental assessments, and the legal framework for the environmental impact assessment process in Canada and in other selected jurisdictions. The course emphasizes how the environmental assessment process accounts for the biophysical, socio-economic and health issues.

Prerequisites: 60 credit hours or permission of the instructor Precluded: ENVS 305-3

ENPL 313-3 Rural Community Economic Development This course offers an introduction to the various theories and concepts of community economic development with specific application to northern, rural, remote and First Nations communities.

Prerequisites: 60 credit hours

ENPL 318-3 Professional Planning Practice This course is an overview of the professional skills required in the practice of planning. The course examines the ethical role of the planner and provides an in-depth assessment of the municipal and sectoral planning environment.

Prerequisites: ENPL 204-3 or ENVS 204-3 and 60 credit hours

ENPL 319-3 Social Research Methods This course provides an overview of social research methods used in environmental planning, social sciences, and humanities. Topics covered include research design, data collection techniques (e.g., surveys, interviews), quantitative and qualitative data analysis, and project management.

Prerequisites: 60 credit hours or permission of the instructor Precluded: ENVS 419-3 and ENPL 419-3

ENPL 401-3 Environmental Law This course covers the interpretation and application of international, national, provincial, and aboriginal environmental law (This course is recommended for students who intend to pursue the study of law.)

Prerequisites: 60 credit hours Precluded: ENVS 401-3

ENPL 402-3 Terrain Assessment An evaluation of different techniques used to classify terrain, including an understanding of the dynamics of land surface processes, the impacts of development, applied remediation methods, and the use of terrain information for site and land use planning.

Prerequisites: GEOG 210-3 and 60 credit hours

Precluded: ENVS 402-3

ENPL 409-4 Advanced First Nations Community and

Environmental Planning This is a workshop style, field-based course that allows students to work on a real world planning project in collaboration with a First Nations community. Students will be expected to be able to work in the field.

Prerequisites: 90 credit hours and ENPL 208-3

ENPL 410-3 Land Use Planning An evaluation of land use planning at the federal, provincial, and municipal levels. The course will familiarize students with theories of property rights and their applications to land use planning and tenure systems.

Prerequisites: 60 credit hours and ENPL 204-3 or ENVS 204-3 or

permission of instructor *Precluded:* ENVS 410-3

ENPL 411-3 Planning Theory, Process and Implementation

Theories of planning and how theory informs planning practice. How planners manage planning processes, how plans are implemented. Use of communicative skills important in expediting implementation within the political environment of planning practice.

Prerequisites: 60 credit hours and ENPL 204-3 or ENVS 204-3 or permission of the instructor

Precluded: ENVS 411-3

ENPL 415-3 Ecological Design This course is an overview of the unique planning and development dimensions of small communities and rural regions. Current planning practice and new ecological planning principles will be examined. Design and planning technologies will be utilized in the development of a landscape plan for a small community/rural region.

Prerequisites: ENPL 204-3 or ENVS 204-3 and 90 credit hours Precluded: ENVS 415-3

ENPL 420-1 Research Methodology An opportunity to examine major methodologies and to prepare a research proposal.

Co-requisites: ENPL 430-3 Precluded: ENVS 420-3

ENPL 430-3 Undergraduate Thesis This is an optional course, allowing students to devote time to a concentrated piece of research.

Co-requisites: ENPL 420-1 Precluded: ENVS 430-3

ENPL 431-3 Professional Report This course allows the development of a professional report relevant to the student's theme of interest.

Prerequisites: 90 credit hours and permission of an approved Academic Supervisor

ENPL 440-(2-6) Internship This course allows students to gain applied knowledge in the field of planning outside the university setting. A student can take one or several internship(s) for a maximum of 6 credit hours toward the Bachelor of Planning degree.

Prerequisites: Permission of the instructor and Program Chair

ENPL 498-(1-6) Special Topics Selected environmental topics. May be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the instructor and Program Chair

ENPL 499-(1-6) Independent Study May be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the instructor and Program Chair

Environmental Science and Engineering (ENSC)

ENSC 111-1 Introduction to Environmental Science This course introduces students to the discipline of environmental science. Students are exposed to a variety of environmental science topics through seminars, lectures, assignments and invited presentations. Some field trips may be required.

Prerequisites: None

ENSC 201-3 Weather and Climate This course will explain the fundamental processes of weather and climate, and leads the student toward an understanding of how the atmosphere works and how to interpret the weather. Topics introduced include: atmospheric energy, solar and terrestrial radiation, the "Greenhouse Effect" and climate change, air quality and stratospheric ozone, humidity, clouds, precipitation, storms and weather systems, hurricanes and tornadoes, stability and thunderstorms, wind and atmospheric dynamics, and weather forecasting.

Precluded: ENVS 201-3

ENSC 202-3 Introduction to Aquatic Systems

are central to all areas of life, as well as human endeavours. In
addition to being the site of our earliest evolution, aquatic systems
are now recognized as fundamental to the regulation of atmospheric
gases and so our climate. This course provided a broad overview of
the physical, chemical, geological, and biological aspects of freshwater
and marine systems. Human perspectives focus on the conservation
and exploitation of the resources found within and below lakes, rivers
and oceans. Introduction to Aquatic Systems will provide a foundation
for students wishing to pursue advanced courses in any area of
aquatic study.

Prerequisites: BIOL 101-4, or BIOL 103-3 and BIOL 123-1; BIOL 102-4, or BIOL 104-3 and BIOL 124-1; CHEM 101-3
Recommended: PHYS 100-4 and MATH 100-3 or MATH 152-3 or permission of the instructor
Precluded: ENVS 202-3

ENSC 250-2 Introduction to Environmental Data Analysis This course introduces the principles and practice of developing computer programs to analyze and visualize environmental data. Topics include input and output of data, formatting data, accessing and using package libraries, writing functions, profiling and documenting code, and developing algorithms for environmental data analysis. Example datasets and problems from the geophysical and environmental sciences provide working examples. This course consists of lectures and labs with an emphasis on the development of practical skills in the lab.

Prerequisites: MATH 100 and MATH 101, or MATH 152 Prerequisites with concurrency: STAT 240 or STAT 371 **ENSC 302-3 Low Carbon Energy Development** This course provides an overview of low carbon energy sources. The course covers global resources, with a focus on energy development in British Columbia. Topics include environmental, economic and social aspects of nuclear, bioenergy, solar, geothermal, wind, hydro, and ocean energy.

Prerequisites: 30 credit hours Precluded: ENPL 302-3

ENSC 303-3 Energy Systems and Sustainability This course provides an overview of where our energy comes from, the services we derive from energy use, such as heat, motion, and light, and the environmental implications of increasing energy demand. Topics include electricity and fuel production, energy demand for buildings, transportation and industry, and the potential of electrification and energy efficency to reduce energy demand. The course examines future energy scenarios that limit greenhouse gas emissions through both changes in how energy is used and the integration of low-carbon energy sources.

Prerequisites: 30 credit hours

ENSC 307-3 Introduction to Geochemistry This course introduces the fundamential principles of modern geochemistry and biogeochemistry, from the origin of elements to the functions of earth systems. Chemical reactions, the energetics and the physics that control the elemental distributions are explained in the essential reservoirs of earth: rock, water, soils and the atmosphere. Geochemical principles are applied to topics such as climate change, mineral prospecting and environmental geochemistry. The course is taught in alternate years.

Prerequisites: CHEM 100-3, CHEM 101-3, CHEM 120-1, CHEM 121-3

ENSC 308-3 Northern Contaminated Environments This course provides students with a broad knowledge base and a sound understanding of various environmental problems in the north, with particular emphasis on practical skills to address such problems. Topics include physical settings of the north, Arctic ecology and environmental pollution, pollutant transport pathways in the Arctic, petroleum hydrocarbon pollution in marine and terrestrial environments, air pollution and climate change, industrial waste management, and environmental and human health risk assessment.

Prerequisites: 60 credit hours Precluded: ENVS 308-3

ENSC 312-3 Biometeorology This course develops an understanding of the principles of weather and climate at micro-, local and meso-scales. It discusses the processes associated with transfers of heat, mass, and momentum and resulting climates near the surface. Other topics include fog, urban and forest climates, bioclimatology, local winds, as well as transport and dispersion of air pollution.

Prerequisites: ENSC 201-3 or ENVS 201-3 and 100 level Math or PHYS or permission of instructor

Precluded: ENVS 312-3

ENSC 325-3 Soil Physical Processes and the Environment

This course focuses on physical principles and processes of soils that influence organisms and the environment, including retention and movement of water, heat transfer, soil strength, gas exchange, transport of solutes, and soil erosion. Examples from areas of land resource management, environmental quality, agriculture and forestry are used to illustrate principles.

Prerequisites: FSTY 205 or permission from instructor

ENSC 404-3 Waste Management This course introduces environmental, technical and political aspects of non-hazardous and hazardous wastes. Topics include sources, evaluative methods, risk assessment, treatment, disposal, and current legal and management requirements.

Prerequisites: 100 level 3 credit hours Chemistry, 100 level 3 credit

hours Biology, and 60 credit hours

Precluded: ENVS 404-3

ENSC 406-3 Environmental Modelling This course provides an understanding of the physical, chemical and biological processes that govern contaminant transport and fate in environmental media. Topics include modelling fundamentals, mass transport in aquatic ecosystems, and mathematical modelling of a wide variety of contamination issues, such as lake eutrophication, river water quality, groundwater contamination, atmospheric deposition, and climate change. Laboratory exercises will complement lecture topics and focus on the development of computer-based modelling skills.

Prerequisites: 60 credit hours. MATH 152-3 or both of MATH 100-3 and MATH 101-3 or permission of the instructor Precluded: ENVS 406-3

ENSC 408-3 Storms This course covers the analysis and dynamics of synoptic weather systems; cyclones and cyclogenesis; fronts, thunderstorms, jet streams and stability; thermodynamic charts, satellite imagery and weather forecasting. May be taught alternate years.

Prerequisites: ENSC 201-3 or ENVS 201-3 or 200 level Math or PHYS or permission of the instructor Precluded: ENVS 408-3

ENSC 412-3 Air Pollution This is a multidisciplinary course focusing on air pollution: emissions, chemistry, air pollution meteorology and dispersion modelling, engineering and legislative controls, health effects, and airshed planning.

Prerequisites: ENSC 201-3, or ENVS 201-3, or permission of the instructor

Precluded: ENVS 412-3

ENSC 417-6 Designing Solutions in Environmental

Engineering In this project-oriented course, students apply concepts and principles from Environmental Science and fundamentals from engineering to design engineering solutions to Environmental problems. The course may include group projects and working with an industry in north/ central BC.

Prerequisites: completion of 90 credit hours in an Engineering Program

ENSC 418-3 Environmental Measurement and Analysis

This is a capstone course for Environmental Science and Environmental Engineering Majors. It is a quantitative laboratory and field based course focusing on advanced environmental measurement and analysis of atmospheric, aquatic, and terrestrial systems. The approach is integrative and problem-oriented; students may examine natural and/or managed systems, including engineered systems (e.g., waste management) and systems impacted by anthropogenic activity (e.g., contamination).

Prerequisites: STAT 240-3 or STAT 371-3, 200 level 3 credit Chemistry, FSTY 205-3 or GEOG 210-3, and 90 credit hours or permission of the instructor

Strongly recommended: BIOL 203-3, ENSC 201-3, ENSC 202-3,

ENSC 308-3

Precluded: ENVS 418-3

ENSC 425-3 Climate Change and Global Warming Climate change and global warming caused by human activity has become one of the most significant environmental, social and economic threats that we have faced. This course presents the science of global climate change and global warming. Emphasis is placed on scientific principles responsible for climate changes, observed evidence of global climate change and global warming, and future climate change. Course topics include climate system, greenhouse effect, El Niño, atmospheric and ocean circulation, Earth's past and present climate, climate models, future climate projection, and climate change impacts on Canada.

Prerequisites: ENSC 201-3 Precluded: ENSC-625-3

ENSC 430-6 Undergraduate Thesis The undergraduate thesis allows students in Environmental Science or Environmental Engineering to devote time to a concentrated piece of research. The thesis may be completed over one or two semesters.

Prerequisites: 90 credit hours and permission of the instructor and Program Chair

ENSC 435-3 Soil Biological Processes and the Environment

Processes at the interface between the biosphere, atmosphere, hydrosphere and lithosphere are critical to the regulation of environmental quality on Earth. This course provides an overview of the soil habitat from a biological perspective and of how soil organisms and the processes they mediate play critical roles in a sustainable planet.

Prerequisites: FSTY 205-3 or permission from instructor Precluded: FSTY 455-3; NREM 655-3; ENSC 635-3

ENSC 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the instructor and Program Chair

ENSC 450-3 Environmental and Geophysical Data Analysis

The focus of this course is on the principles and practicality of the most common environmental and geophysical data analysis methods, including time series analysis and multivariate statistical analysis as well as their application in the environmental and natural sciences. This course consists of lectures and labs, where students apply theories and methods learned in lectures to solve practical problems using computers and software for statistical data analysis.

Prerequisites: MATH 240-3, or STAT 240-3 or STAT 371-3 Precluded: ENSC 650-3

ENSC 452-3 Reclamation and Remediation of Disturbed

Environments This course takes an integrative, scientific approach to the remediation and reclamation of drastically disturbed environments. Industrial activity and chemical spills can result in the contamination of soil, surface water, and groundwater. In addition, some industrial activities such as mining can cause large scale disturbances to the landscape, potentially impacting both terrestrial and aquatic systems. The focus is on the remediation and reclamation of terrestrial systems, but aquatic systems are also included.

Prerequisites: Any second year 3-credit hour Chemistry course, FSTY 205-3, and 60 credit hours

Recommended: ENSC 308-3

ENSC 453-3 Environmental Resources Management and

Decision Making This course introduces various decision-making models and methods to aid in environmental resources management. Topics include environmental economics, benefit-cost analysis, planning evaluation and review technique (PERT), linear programming, multi-objective programming, integer programming, stochastic programming, dynamic programming, and nonlinear programming. A number of environmental systems serve as management examples, such as water resources, water quality, air quality, groundwater, solid waste, and forest ecosystem. Supporting computer software may be used.

Prerequisites: MATH 100-3 and MATH 101-3, or MATH 152-3, or permission of the instructor *Recommended:* ENSC 308-3

ENSC 454-3 Snow and Ice This course focuses on the physical processes involving snow and ice that greatly influences the hydrometeorology of Northern BC and the remainder of Canada. The goals of this course include gaining a better understanding of snowpack, permafrost, lake ice, and glacier formation and ablation processes, learning about the characteristics of snow and ice and how they will evolve with climate change, and conducting an extensive snow survey in the field.

Prerequisites: ENSC 201-3 required

Recommended: GEOG 210-3 and GEOG 412-3

ENSC 460-3 Soil Chemical Processes and the Environment

Reactions at the interface of the atmosphere, biosphere, hydrosphere and lithosphere play key roles in regulating environmental quality on Earth. This course focuses on the key chemical processes in soils, in the Earth's "Critical Zone." The fundamental concepts of chemistry and mineralogy are applied to help students understand the soil system and its relevance to processes in natural ecosystems and environments impacted by human activity.

Prerequisites: FSTY 205-3 or permission of the instructor Precluded: FSTY 455-3; NREM 655-3; ENSC 660-3

ENSC 498-(1-6) Special Topics Selected environmental topics. May be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the instructor and Program Chair

ENSC 499-(1-6) Independent Study May be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the instructor and Program Chair

Environmental Studies (ENVS)

ENVS 101-3 Introduction to Environmental Citizenship This course provides an introduction to the concept of "environmental citizen," and to the foundational elements of environmental studies, including social, ecological, humanistic and indigenous approaches to understanding human interactions with the natural environment. Development of skills in written communication is emphasized.

ENVS 225-3 Global Environmental Change: Science and

Policy This course provides both social and natural science students with a common vocabulary and trans-disciplinary understanding of the complex problems and issues of global environmental change science and policy. Once a common vocabulary has been established, interdisciplinary approaches to current environmental problems are introduced and explored.

Prerequisites: none Preclusions: INTS 225-3

ENVS 306-3 Human Ecology A review of ecological theory and research methods as they pertain to problems facing human societies today.

Prerequisites: 60 credit hours or permission of the instructor

ENVS 309-3 Gender and Environment This course is an introduction to theories, concepts and approaches for understanding relationships between gender and the environment. It considers the evolution and utility of approaches such as ecofeminism. It also examines links between gender and the following: science; environmental domains and professions; environmental management; conservation and recreation; and environmental impacts.

Prerequisites: None

ENVS 311-3 Northern Perspectives Viewpoints and issues particularly relevant to environmental issues and planning activities in northern BC.

Prerequisites: None Precluded: ENPL 311-3

ENVS 326-3 Natural Resources, Environmental Issues and Public Engagement This course examines public engagement mechanisms and the attributes of successful engagement with respect to environmental and resource management issues. It also addresses the socio-political and legal requirements for engagement with the public, including Aboriginal peoples. Exercises and critiques are used to provide students with practical experience in public engagement around environmental issues.

ENVS 414-3 Environmental and Professional Ethics Analysis of environmental and natural resource issues from an ethical perspective; viewpoints and value systems that determine management decisions; professional ethics in natural resource management.

Prerequisites: 90 credit hours or permission of the instructor Precluded: NREM 411-3, ENVS 602-3

ENVS 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

ENVS 498-(1-6) Special Topics Selected environmental topics. May be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the instructor and Program Chair

ENVS 499-(1-6) Independent Study May be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the instructor and Program Chair

First Nations Studies (FNST)

UNBC's First Nations Studies courses are offered in a number of different locations: Prince George, New Aiyansh, Prince Rupert.

FNST 100-3 The Aboriginal Peoples of Canada This course is an introduction to the languages, history, culture, and enduring presence of the aboriginal people of Canada, intended to explore the range of aboriginal social formations, both past and present, and to consider the future. Oral, written, and archaeological records will be examined. Special attention will be given to the crucial economic, social, and spiritual contacts that exist within aboriginal societies, as well as to materials on the changes that have occurred since contact with Europeans.

Prerequisites: None

FNST 131-3 A First Nations Language: Level 1 This course provides an introduction to the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitxsanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or another Athabaskan language, Cree or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: None

FNST 132-3 A First Nations Language: Level 2 This course develops the reading, writing, and speaking skills in a First Nations Language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitxsanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, Cree or other Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 131-3 or permission of the Program Chair

FNST 133-3 Dakelh / Carrier Language: Level 1 This course provides an introduction to the conversational and written elements of the Dakelh / Carrier language.

Prerequisites: None

FNST 134-3 Dakelh / Carrier Language: Level 2 This course develops reading, writing, and speaking skills in the Dakelh / Carrier language.

Prerequisites: FNST 133-3 or permission of the Program Chair

FNST 135-3 Haisla Language (X_a'islak'ala): Level 1 This course provides an introduction to the conversational and written elements of the X_a'islak'ala language.

Prerequisites: None

FNST 136-3 Haisla Language (X_a'islak'ala): Level 2 This course develops reading, writing, and speaking skills in the X_a'islak'ala language.

Prerequisites: FNST 135-3 or permission of the Program Chair

FNST 137-3 Tsimshian Language (Sm'algyax): Level I This course provides an introduction to the conversational and written elements of Sm'algyax.

Prerequisites: None

FNST 138-3 Tsimshian Language (Sm'algyax): Level 2 This course develops reading, writing, and speaking skills in Sm'algyax.

Prerequisites: FNST 137-3 or permission of the Program Chair

FNST 139-3 Nisga'a Language: Level 1 This course provides an introduction to the conversational and written elements of the Nisga'a language using materials from everyday life.

Prerequisites: None

FNST 140-3 Nisga'a Language: Level 2 This course develops reading, writing, and speaking skills in the Nisga'a language.

Prerequisites: FNST 139-3 or permission of the Program Chair

FNST 143-3 Gitxsanim<u>x</u>: Level 1 This course provides an introduction to the conversational and written elements of Gitxsanim<u>x</u>.

Precluded: FNST 131-3 when taught as Gitxsanimx

FNST 144-3 Gitxsanim: Level 2 This course develops reading, writing, and speaking skills in Gitxsanim.

Prerequisites: FNST 143-3

Precluded: FNST 132-3 when taught as Gitxsanimx

FNST 145-3 Tsilhqot'in Language: Level 1 This course provides an introduction to the conversational and written elements of the Tsilhqot'in language.

FNST 146-3 Tsilhqot'in Language: Level 2 This course develops reading, writing, and speaking skills in Tsilhqot'in language.

Prerequisites: FTNST 145-3 or permission of the Program Chair

FNST 147-3 Tsilhqot'in Culture: Level 1 This course provides an introduction to Tsilhqot'in culture.

FNST 148-3 Tsilhqot'in Culture: Level 2 This course provides advanced study of Tsilhqot'in culture.

Prerequisites: FNST 147-3 or permission of the Program Chair

FNST 161-3 A First Nations Culture: Level 1 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitxsan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture, Shushwap, Métis. Student transcripts will indicate the specific culture studied.

Prerequisites: None

FNST 162-3 A First Nations Culture: Level 2 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitxsan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture, Shushwap, Métis. Student transcripts will indicate the specific culture studied.

Prerequisites: FNST 161-3 or permission of the Program Chair

FNST 163-3 Dakelh / Carrier Culture: Level 1 This course provides an introduction to Dakelh / Carrier culture.

Prerequisites: None

FNST 164-3 Dakelh / Carrier Culture: Level 2 This course provides advanced study of Dakelh / Carrier culture.

Prerequisites: FNST 163-3 or permission of the Program Chair

FNST 167-3 Tsimshian Culture: Level 1 This course provides an introduction to Tsimshian culture.

Prerequisites: None

FNST 168-3 Tsimshian Culture: Level 2 This course provides advanced study in Tsimshian culture.

Prerequisites: FNST 167-3 or permission of the Program Chair

FNST 169-3 Nisga'a Culture: Level 1 This course provides an introduction to Nisga'a culture.

Prerequisites: None

FNST 170-3 Nisga'a Culture: Level 2 This course provides advanced study of Nisga'a culture.

Prerequisites: FNST 169-3 or permission of the Program Chair

FNST 171-3 Métis Studies Level One The course focuses on the Métis from their origins in the early Nineteenth Century, through the flowering of the Métis Nation on the Western Plains, to the situation of the Métis in contemporary Canadian society.

Prerequisites: None

FNST 172-3 Métis Studies Level Two: The Métis Nation and the Canadian State During this course, we will look closely at the historic and contemporary relations between the Métis, the Canadian State, and the ramifications of state policies on the maintenance of the Métis as a distinct people. We will also look at the way that Métis people, as individuals, have experienced the Canadian justice system.

Prerequisites: FNST 171-3

FNST 173-3 Gitxsan Culture: Level 1 This course introduces students to Gitxsan culture.

Precluded: FNST 161-3 when taught as Gitxsan culture

FNST 174-3 Gitxsan Culture: Level 2 This course develops student knowledge of selected topics in Gitxsan culture.

Prerequisites: FNST 173-3

Precluded: FNST 162-3 when taught as Gitxsan culture

FNST 200-3 Perspectives in First Nations Studies This course provides an introduction to a variety of perspectives within the discipline of First Nations Studies. This course explores the development of First Nations Studies and the various approaches to the cultures of contemporary First Nations that have arisen from the fields of ethnography, history, education, law, etc. Woven throughout this course is a discussion of Indigenous Knowledge systems.

Prerequisites: FNST 100

FNST 203-3 Introduction to Traditional Ecological Knowledge

Designed for students with an interest in traditional ecological knowledge (TEK), this course takes an experiential approach to Indigenous ecological practices in British Columbia and beyond. Students explore and apply Indigenous ecological knowledge introduced through literature, discussion, and visits by local knowledge holders.

Prerequisites: FNST 100-3

FNST 205-3 Seminar in First Nations Studies Defining questions for the discipline. Major topics in the discipline will be introduced through the study of published examples by well-known contributors.

Prerequisites: registration as a major in First Nations Studies or permission of the Program Chair

FNST 206-3 First Nations Oral Literatures An introduction to oral traditions, storytelling, and the analysis of discourse structures.

Prerequisites: None

FNST 217-3 Contemporary Challenges Facing Aboriginal

Communities This is a survey course focusing on the contemporary challenges faced by Aboriginal peoples in Canada. In this course students research and participate in seminars on the specific challenges facing Aboriginal communities today. This includes specific challenges that arise out of the broader topic areas of language and culture, land rights, economics, governance, youth, education, health, social services, violence, healing, community development, repatriation of cultural property, and decolonization.

Prerequisites: FNST 100-3 Precluded: FNST 215-3, 216-3

FNST 220-3 Introduction to Linguistics An introduction to linguistics with emphasis on aspects especially relevant to students interested in native languages of northern BC.

Prerequisites: None

FNST 221-3 Practical Phonetics of First Nations Languages

An examination of the articulatory basis of human languages with an emphasis on the sounds of the First Nations languages of northern British Columbia. Includes intensive practice in the recognition, production and description of classes of sounds and the use of a practical writing system for one or more target languages.

Prerequisites: None

FNST 223-3 First Nations Language Immersion* This course provides intensive immersion experience in one First Nations language to facilitate development of conversational fluency. It will be taught in a number of different sections, each of which will focus on a different language, e.g. Haida, Sm'algyax (Coast Tsimshian), Nisga'a, Gitxsanimx, Haisla, Tlingit, Sekani, Beaver, Slavey, Tahltan, Wet'suwet'en, Dakelh / Carrier, Chilcotin, or another Athabaskan language; or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: None (may be offered concurrently with first and/or second level language courses). *Specific equivalent courses for each First Nations language may be substituted: e.g. FNST 231-3, 232-3, 233-3, 234-3, 235-3, 236-3, 237-3, 238-3, 239-3, 240-3

FNST 231-3 A First Nations Language: Level 3 This course provides an introduction to the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitxsanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 132-3, or equivalent, in the appropriate language

FNST 232-3 A First Nations Language: Level 4 This course provides an introduction to the conversational and written elements of one First Nations language. It may be taught in a number of different sections, each of which may focus on a different language, e.g., Gitxsanimx, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 231-3, or equivalent, in the appropriate language

FNST 233-3 Dakelh / Carrier Language: Level 3 This course focues on the development of speaking and understanding the Dakelh / Carrier language, including reading and writing skills, at the intermediate level.

Prerequisites: FNST 134-3 or permission of the Program Chair

FNST 234-3 Dakelh / Carrier Language: Level 4 (Advanced Intermediate) This course focuses on the development of speaking and understanding the Dakelh / Carrier language, including reading and writing skills, at level 4 (advanced intermediate).

Prerequisites: FNST 233-3 or permission of the Program Chair

FNST 235-3 Haisla Language (X_a'islak'ala): Level 3 This course focuses on the development of speaking and understanding the X_a'islak'ala language, including reading and writing skills, at the intermediate level.

Prerequisites: FNST 136-3 or permission of the Program Chair

FNST 236-3 Haisla Language (X_a'islak'ala): Level 4 (Advanced Intermediate) This course focuses on the development of speaking and understanding the X_a'islak'ala language, including reading and writing skills, at level 4 (advanced intermediate).

Prerequisites: FNST 235-3 or permission of the Program Chair

FNST 237-3 Ts'msyen Language (Sm'algyax): Level 3 This course focuses on the development of speaking and understanding of Sm'algyax, including reading and writing skills, at the intermediate level.

Prerequisites: FNST 138-3 or permission of the Program Chair

FNST 238-3 Ts'msyen Language: Level 4 (Advanced Intermediate) This course focuses on the development of speaking and understanding of Sm'algyax, including reading and writing skills, at level 4 (advanced intermediate).

Prerequisites: FNST 237-3 or permission of the Program Chair

FNST 239-3 Nisga'a Language: Level 3 The development of speaking and understanding of the Nisga'a language, and reading and writing skills at level. Materials studied include modern texts as well as tapes of elders.

Prerequisites: FNST 140-3 or permission of the Program Chair or grade 12 equivalent

FNST 240-3 Nisga'a Language: Level 4 The development of speaking and understanding of the Nisga'a language, and reading and writing skills at level 4 (advanced intermediate). Materials studied include modern texts as well as tapes of elders.

Prerequisites: FNST 239-3 or permission of the Program Chair

FNST 243-3 Gitxsanimx: Level 3 This course provides intermediate study of the conversational and written elements of Gitxsanimx.

Prerequisites: FNST 144-3

FNST 244-3 Gitxsanimx: Level 4 This course provides advanced study of the conversational and written elements of Gitxsanimx, at level 4 (advanced intermediate).

Prerequisites: FNST 243-3

Precluded: FNST 232-3 when taught as Gitxsanimx

FNST 245-3 Tsilhqot'in: Level 3 This course focuses on the development of speaking and understanding the Tsilhqot'in language, including reading and writing skills, at the intermediate level.

Prerequisites: FNST 146-3 or permission of the Program Chair

FNST 246-3 Tsilhqot'in Language: Level 4 This course focuses on the development of speaking and understanding the Tsilhqot'in language, including reading and writing skills at level 4 (advanced intermediate).

Prerequisites: FNST 245-3 or permission of the Program Chair

FNST 249-3 Aboriginal Resource Planning This course is designed for students who have an interest in First Nations and planning. It develops students' research, writing and communication skills. This interdisciplinary course combines theory and practices from traditional land-use planning and First Nations practices and ideas concerning resource planning. Students apply what they learn to issues of particular interest to First Nations in northern British Columbia.

Prerequisites: FNST 100-3 Precluded: ENPL 208-3

FNST 261-3 A First Nations Culture: Level 3 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitxsan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture or Shushwap. Student transcripts will indicate the specific culture studied.

Prerequisites: FNST 162-3 focusing on the same culture, or permission of the Program Chair

FNST 262-3 A First Nations Culture: Level 4 This course focuses on one First Nation's culture. It may be taught in a number of different sections, each of which may focus on a different culture e.g., Haida, Gitxsan, Tlingit, Sekani, Beaver, Slavey, Tahltan, Chilcotin, or other Athabaskan culture or Shushwap. Student transcripts will indicate the specific culture studied.

Prerequisites: FNST 261-3 focusing on the same culture, or permission of the Program Chair

FNST 263-3 Dakelh / Carrier Culture: Level 3 This course provides advanced study in Dakelh / Carrier culture.

Prerequisites: FNST 164-3 or permission of the Program Chair

FNST 264-3 Dakelh / Carrier Culture: Level 4 This course provides advanced study in Dakelh / Carrier culture.

Prerequisites: FNST 263-3 or permission of the Program Chair

FNST 267-3 Tsimshian Culture: Level 3 This course provides advanced study in Tsimshian culture.

Prerequisites: FNST 168-3 or permission of the Program Chair

FNST 268-3 Tsimshian Culture: Level 4 This course provides advanced study in Tsimshian culture.

Prerequisites: FNST 267-3 or permission of the Program Chair

FNST 269-3 Nisga'a Culture: Level 3 This course provides advanced study in Nisga'a culture.

Prerequisites: FNST 170-3 or permission of the Program Chair

FNST 270-3 Nisga'a Culture: Level 4 This course provides advanced study in Nisga'a culture.

Prerequisites: FNST 269-3 or permission of the Program Chair

FNST 271-3 Métis Studies Level 3: Métis Communities in Town and Country In this course we look at the variety of Métis communities located in both rural and urban areas. We will examine more specifically the manner in which these communities are formed, and the challenges that they face. Our focus is on contemporary social and political issues.

Prerequisites: FNST 172-3 or permission of the Program Chair

FNST 272-3 Métis Studies Level 4: Working with Métis

Communities This class is designed to develop and apply a set of research skills and competencies for working with Métis Communities.

Prerequisites: FNST 271-3 or permission of the Program Chair

FNST 273-3 Gitxsan Culture: Level 3 This course introduces students to advanced study of specific topics in Gitxsan culture.

Prerequisites: FNST 174-3

Precluded: FNST 261-3 when taught as Gitxsan culture

FNST 274-3 Gitxsan Culture: Level 4 This course introduces students to advanced study of specific topics in Gitxsan culture, including community-based research.

Prerequisites: FNST 273-3

Precluded: FNST 262-3 when taught as Gitxsan culture

FNST 280-3 Aboriginal Medicines I-Harvesting and Preservation

This course provides students with an understanding of the traditional health knowledge of a specific Aboriginal group. Students are expected to participate in the identification, description, and methods of harvesting and preserving plants for medicinal purposes. This course is taught in the traditional territory of a specific Aboriginal group.

Prerequisites: FNST 100-3

FNST 281-3 Aboriginal Medicines II - Administering Ethics This course examines the treatment of diseases, administering of medicines and ethical practices and standards within the traditional health knowledge of a specific Aboriginal group. Students are introduced to medicine from an Aboriginal world view. This course is taught in the traditional territory of an Aboriginal group.

Prerequisites: FNST 280-3

FNST 282-3 Aboriginal Health Philosophy This is an introductory course that examines traditional health knowledge, Aboriginal approaches to health, connection to the land, Aboriginal world views and spirituality, family systems and the importance of traditional food to good health. Students are introduced to the traditional health teachings of a specific Aboriginal group. This course is taught in the traditional territory of an Aboriginal group.

Prerequisites: FNST 100-3

FNST 283-3 Métis Studies This course examines the place of the Métis in Canadian and American history and culture. It explores ways in which incorporations into Canada and the Canadian provinces and territories, as well as American states, affects the lives of the Métis. This will take place through readings, lectures, discussions, guest speakers, biographies of influential Métis and studies of Métis organizations.

FNST 284-3 Dakelh Studies This course is an introduction to the Dakelh cultures of British Columbia. The course will provide an overview of the philosophy, world view, oral histories, technologies and history of the Dakelh people. This course may provide focus on a particular Dakelh culture or it may be offered as a survey course of all Dakelh cultures in BC.

Precluded: FNST 163-3: Carrier Culture: Level 1 and FNST 164-3: Carrier Culture: Level 2

FNST 298-(1-3) Special Topics in First Nations Studies This course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: Permission of the instructor and Department Chair

FNST 300-3 Research Methods in First Nations Studies Major methodologies and methods such as participant observation, archival research, questionnaires and statistical analysis are reviewed and considered in the light of other goals of the discipline. The importance of research ethics and research protocols is discussed.

Prerequisites: FNST 200-3

FNST 301-3 Art and Material Culture of BC First Nations

A survey of major sources in the literature on First Nations art and material culture with an emphasis on contemporary forms. First Nations artists will participate in the seminar.

Prerequisites: Upper-division standing

FNST 302-3 First Nations Health and Healing This seminar focuses on the concepts of health and healing and includes a review of major published materials. Representatives of First Nations communities and organizations participate in the seminar.

Prerequisites: FNST 100-3 and Upper-division standing or permission of the Chair

Precluded: NURS 205-3

FNST 303-3 First Nations Religion and Philosophy A seminar on philosophy and religion in First Nations cultures. First Nations representatives will participate in the seminar.

Prerequisites: Upper-division standing

FNST 304-3 Indigenous Environmental Philosophy A seminar exploring Indigenous philosophy, knowledge, contemporary issues and perspectives, this interdisciplinary course draws on literature from fields such as traditional ecological knowledge (TEK), cultural ecology, ethnoscience, and international development. Students develop research, writing and communication skills.

Prerequisites: Upper-division standing

FNST 305-3 Seminar in First Nations Studies This seminar course engages students in a specified topic area relevant to the discipline of First Nations Studies. Contemporary scholarly literature is used to support the seminar topic and students' learning through discussion.

Prerequisites: FNST 100-3 or permission of the Chair

FNST 306-3 Indigenous Women: Perspectives The purpose of this course is twofold: first, to understand how Indigenous women's lives have been shaped by colonialism; and second, to delineate the global themes in indigenous women's current political and social struggles to transcend the colonial legacy that continues to constrain them.

Prerequisites: FNST 100-3 or WMST 100-3 or permission of the instructor

Precluded: WMST 306-3

FNST 310-3 Lisims Anadromous Summer and Fall Fisheries in Nisga'a Culture and History This course provides an opportunity to study the relationship between Nisga'a and anadromous summer and fall fisheries, primarily Salmonids. The course content focuses on Nisga'a culture, history, environmental philosophy and knowledge of these fisheries. Course content will include a holistic discussion of the fisheries, including such topics as spirituality, politics and diplomacy, traditional science and technology, and fisheries resource management. Students already receiving credit in FNST 304-3 at WWN prior to passage of this motion will not be eligible to receive credit in FNST 310-3.

Prerequisites: FNST 100-3 or FNST 169-3 or permission of the Chair

FNST 311-3 The Spring Anadromous Fisheries of Lisims in Nisga'a Culture and History This course provides an opportunity to study the relationship between Nisga'a and spring anadromous fisheries. The focus will be on important fisheries of oolichan and early salmon, such as steelhead. The course content will focus on Nisga'a culture, history, environmental philosophy and knowledge of these fisheries. Course content will include a holistic discussion of the fisheries, including such topics as spirituality, politics and diplomacy, traditional science and technology, and fisheries resource management. Students already receiving credit in FNST 498-(3-6) at WWN prior to passage of this motion will not be eligible to receive credit in FNST 311-3.

Prerequisites: FNST 100-3 or FNST 169-3 or permission of the Chair

FNST 312-3 Image of the Indian in Film This course explores the history of images of the Indian in film and how such images continue to influence the ongoing relationships between Indigenous and settler societies today. Included in this course is an exploration of the images presented by Indigenous filmmakers themselves.

Prerequisites: FNST 100 or permission of the instructor Precluded: FNST 498-3

FNST 313-3 Healing within Art: Space, Time and Materials This course examines healing within art from an Indigenous perspective, including fundamental concepts of expressive art as a healing force, creating a space and time for healing within art, and use of basic material such as paint, clay and collage for therapeutic purposes. This course emphasizes experiential learning methods, where students create, process and share art. Students gain an understanding of the socio-political contexts of personal struggles and successes, as well as learn to apply Indigenous spiritual philosophies.

Prerequisites: FNST 100 or permission of the instructor Precluded: FNST 498-3 **FNST 315-3 Aboriginal Health Management** This course examines government policies dedicated to the improvement of Aboriginal health in Canada. Population health, prevention and health promotion theories are explored as well as current health management structures in place in Aboriginal communities. This course is designed to be delivered in collaboration with an Aboriginal/First Nations community partner.

Prerequisites: FNST 282-3

FNST 316-3 Aboriginal Health and Chronic Illness This course provides students an opportunity to critically examine the current health status of Aboriginal people, including the incidence of chronic illness and mental health issues. Students are introduced to traditional Aboriginal healing practices intended to address the current state of Aboriginal health. This course is designed to be delivered in collaboration with an Aboriginal/First Nations community partner.

Prerequisites: FNST 281-3 Precluded: HHSC 471-3

FNST 317-3 Aboriginal Healing Practices This course focuses on the traditional healing practices and cultural protocols of a specific Aboriginal group, or a specific healing practice across several Aboriginal groups. Students are expected to participate in the organization and preparation of one or more traditional healing practices.

Prerequisites: Either FNST 302-3 or FNST 303-3, and permission of the cousre instructor

FNST 320-3 The Structure of a First Nations Language An introduction to the linguistic structure of a First Nations language—words, phrases and sentences. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 220-3

FNST 321-3 First Nations Advanced Composition and Conversation, Level 1 Advanced composition and conversation, using texts and tapes including poetry.

Prerequisites: Level 4 (or equivalent) in the appropriate First Nations language

FNST 322-3 First Nations Advanced Composition and Conversation, Level 2 Advanced composition and conversation, using texts and tapes including poetry.

Prerequisites: FNST 321-3

FNST 323-3 First Nations Advanced Translation and Transcription Translation and transcription from English to a First Nations language and back.

Prerequisites: advanced knowledge of a First Nations language satisfactory to the instructor

FNST 324-3 Advanced First Nations Language Immersion*

This course provides advanced intensive immersion experience in one First Nations language to extend and deepen student skills and fluency in conversation and other oral genres (public speaking, storytelling, etc.). It will be taught in a number of different sections, each of which will focus on a different language, e.g. Haida, Sm'algyax (Coast Tsimshian), Nisga'a, Gitxsanimx, Haisla, Tlingit, Sekani, Beaver, Slavey, Tahltan, Witsuwit'en, Dakelh / Carrier, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied. May be repeated for up to three additional credits with permission of the Program Chair; if repeated, credits may substitute for an advanced language course in the relevant language with permission of the Dean.

Prerequisites: FNST 223-3

*Specific equivalent courses for each First Nations language may be substituted.

FNST 325-3 First Nations Language Mentoring* This course provides an opportunity for students of First Nations languages to work with fluent speakers in a mentoring or apprenticeship context to develop language skills. It will be available in a number of different sections, each of which will focus on a different language, e.g. Haida, Sm'algyax (Coast Tsimshian), Nisga'a, Gitxsanimx, Haisla, Tlingit, Sekani, Beaver, Slavey, Tahltan, Witsuwit'en, Dakelh / Carrier, Chilcotin, or another Athabaskan language, or Shushwap. Student transcripts will indicate the specific language studied.

Prerequisites: FNST 220-3 or FNST 223-3 Co-requisites: FNST 220-3 or FNST 221-3

*Specific equivalent courses for each First Nations language may be substituted.

FNST 350-3 Law and Indigenous Peoples This course provides an introduction to Indigenous peoples' rights in international and domestic law and examines the key legal and political instruments and issues associated with Indigenous peoples' rights and interests. Topics may include but are not limited to the following: human rights, resource development, global pressures, intellectual property, customary law, traditional knowledge, dispute resolution, treaties and Supreme Court cases. The course is based on the methodological and theoretical foundations of comparative constitutional law, international law, Indigenous law and legal anthropology.

Prerequisites: FNST 100-3 or POLS 100-3 Precluded: FNST 250-3, POLS 220-3, POLS 380-3

FNST 400-3 Community-based Research Project Applying First Nations Research Methods Group projects will be undertaken in partnership with a community or organization under the supervision of a faculty member.

Prerequisites: FNST 300-3

FNST 405-3 Advanced Seminar in First Nations Studies:

Extending the Discipline A seminar on the theory and practice of First Nations Studies emphasizing critiques of theory; this seminar is an excellent preparation for graduate training.

Prerequisites (with concurrency): FNST 400-3

FNST 406-3 Comparative Rhetoric and Discourse This course is a seminar in which examples of contemporary rhetoric are considered as aesthetic and cultural performances.

Prerequisites: Upper-division standing or permission of instructor

FNST 407-3 First Nations Perspectives on Race, Class, Gender and Power An advanced seminar in which First Nations writings regarding experience of race, class, gender, and power will be discussed in relation to contemporary theory.

Prerequisites: Upper-division standing or permission of the Chair

FNST 408-3 First Nations Clothing and Adornment In this course, we will look at the clothing and personal adornment of First Nations people in North America, particularly Canada. We will examine clothing styles of the past and the traditional clothing styles worn today by First Nations. We will consider the resources used in the manufacture of materials, the science of clothing manufacture, the cultural meaning of clothing and adornment and the clothing of a number of culture areas. This course will provide students an opportunity to create an item of First Nations-style clothing or ornamentation for part of the grade. The course will begin with a discussion of possible projects, materials and techniques and then will move to a series of lectures. A number of classes thereafter will involve actual work on projects while short presentations are given by the instructor, guest speakers and class members.

Prerequisites: FNST 301-3, or permission of the Program Chair

FNST 409-3 Indigenous Perspectives on Reincarnation and Rebirth This seminar will review indigenous philosophy on the subject of reincarnation and rebirth, both of humans and of the animal realm or four legged, winged and finned creatures of this earth. The importance of these philosophies will be reviewed in terms of indigenous concepts of psychology and the nature of personality, of ecological concerns, of spirit dimensions as well as of nationhood. The course will briefly compare indigenous concepts of reincarnation and rebirth with those in Africa and the Hindu and Buddhist traditions, but the emphasis is on North American indigenous thought and experience regarding returning and rebirth.

Prerequisites: Upper-division standing, or permission of the instructor

FNST 410-(3-6) Advanced Topics in First Nations Art and Material Culture Advanced Topics in Art and Material Culture of BC First Nations: A survey of major sources in the literature on focused topics in First Nations Art and Material Culture with an emphasis on contemporary forms. Topical focus may vary with each offering, ranging from clothing and adornment of First Nations Peoples: Northwest Coast design and carving; Métis material culture, etc. The course may cover traditional and contemporary material, sources of materials and science of artists will participate in the seminar, and students will work on projects as well as participate in seminars with the instructor, guest speakers and class members.

Prerequisites: FNST 301-3, or permission of the Program Chair

FNST 411-(3-6) Advanced Topics in Indigenous Religion and Philosophy Review of Indigenous philosophies on a selected topic (such as relations with animals or luck and hunting). The significance of the philosophies will be considered in the light of indigenous concepts of psychology and personality, ecological concerns, and nationhood. First Nations representatives will participate in the

Prerequisites: FNST 303-3, or permission of the Program Chair

FNST 412-3 Political Economy and First Nations Women The purpose of this course is to understand how the political economy acts upon First Nation's women's lives in and beyond their home communities as well as to offer comparative examples of similar processes from elsewhere in the new world and from Asia and Africa

Prerequisites: Upper-division standing or permission of the Program Chair

Precluded: WMST 412-3

FNST 413-(3-6) Topics in Aboriginal Women's Studies This course explores topics relating to aboriginal women in both Canadian and international contexts. Topics may vary from year to year. This course may be repeated for credit (maximum six credit hours).

Prerequisites: FNST 100-3 or WMST 100-3 or permission of the instructor

Precluded: WMST 413-(3-6)

FNST 416-3 International Perspective Indigenous Issues in International Perspective. An advanced seminar in which issues such as land rights, relations to nation states, and cultural harmony are examined by presenting cases from a variety of indigenous groups. This course may be taught as 416-3/606-3.

Prerequisites: FNST 100-3 or permission of the instructor

FNST 420-3 Developing Language Materials A presentation of design goals and practical considerations in the preparation of reference and pedagogical materials for poorly documented languages, with an emphasis on languages of northern BC.

Prerequisites: FNST 220-3

FNST 421-3 First Nations Songs and Poetry A study of songs and poetry in a First Nation's language.

Prerequisites: Level 4 (or equivalent) in the appropriate First Nations language

FNST 422-3 First Nations Speeches and Stories A study of speeches and stories in a First Nation's language. Analysis of the various linguistic variations which accompany different kinds of speeches and stories.

Prerequisites: Level 4 (or equivalent) in the appropriate First Nations language

FNST 423-3 A Study of a First Nation's Language Family and Its Linguistic Relatives This course will include: a survey and comparison of the languages in a particular language family; the evidence for the genetic affiliation of the languages; the correspondences among the languages and reconstruction of the proto-language; the evidence for subgrouping; discussion of possible remoter relations of the family; interaction with neighbouring languages; implications for prehistory.

Prerequisites: Level 4 (or equivalent) in the appropriate First Nations language

FNST 424-3 The Literature of a First Nation A study of a First Nation's literature in a First Nation's language.

Prerequisites: Level 4 (or equivalent) in the appropriate First Nations language

FNST 425-3 Oral History This course examines the foundations of oral traditions and oral history methods within academic research. It provides students with an understanding of the importance of oral research methods and an opportunity to expand and enhance this understanding through presentations by First Nations resource people, reading, assignments, online and material resources as well as class discussion. This course incorporates Indigenous perspectives to examine Indigenous worlds through the lens of storytelling methods and collective narrative memory.

Prerequisites: FNST 100-3

FNST 430-3 Mentorship with a Traditional Knowledge

Holder This course facilitates the mentorship of the student by a Traditional Knowledge Holder in order to increase the student's understanding of a specific aspect of Indigenous Knowledge. Topics may include, but are not limited to, language, ceremony, the Feast System, or a subsistence activity. This course takes place in a community or land-based setting. This course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: FNST 100-3 and permission of the Program Chair

FNST 440-(3-6) Internship in First Nations Studies May be repeated once for a total of six credit hours.

Prerequisites: Permission of the Program Chair

FNST 444-3 Experiential Course in First Nations

Studies Students participate in an Indigenous community and/ or land based experiential learning environment that provides opportunities for them to study applied knowledge relative to local and global contexts. This course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: Upper-division standing or permission of the instructor

FNST 451-3 Traditional Use Studies An advanced seminar on traditional use studies, their use, application, and development. The seminar will examine the origins and development of this field, review case studies and recent applications, and contemporary policies.

Prerequisites: ANTH 101-3 or FNST 100-3 or permission of instructor Precluded: ANTH 451-3

FNST 497-(3-6) Senior Project in First Nations Studies

Prerequisites: must be in final year of study and majoring in First Nations Studies; permission of Program Chair

FNST 498-(3-6) Special Topics in First Nations Studies This course examines in detail topics selected by the instructor. This course may be repeated for credit (maximum six credit hours).

Prerequisites: Permission of the Program Chair

FNST 499-(3-6) Independent Study in First Nations Studies This course enables students to read in depth in an area of First Nations Studies not normally covered by established principal or ancillary courses in the First Nations Studies program. This course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: Permission of the Program Chair

Forest Ecology and Management (FSTY)

FSTY 201-3 Forest Plant Systems This course provides knowledge and understanding of classification, nomenclature and identification, morphology, phenology, range, natural history, evolutionary relationships, and basic ecology of important trees (native and exotic) and forest plant families (woody and herbaceous) in western Canada. The course also provides a survey of plant indicator potential and attributes significant to vegetation management. The course includes the development of a plant collection and field trips are required.

Prerequisites: BIOL 101-4, or BIOL 103-3 and BIOL 123-1; and BIOL 102-4, or BIOL 104-3 and BIOL 124-1

Prerequisite or: FSTY 205-3

FSTY 205-3 Introduction to Soil Science Chemical, physical, and biological properties of forest soils; fundamentals of soil formation; soil-water-plant relations, soil ecology and soil fertility. Field trips required.

Prerequisites: CHEM 100-3, 101-3, 120-1, 121-1

FSTY 207-1 Terrestrial Ecological Classification This course explores the critical concepts and methodology of classifying terrestrial ecosystems. The course explores the historical context and attributes of several systems of ecological classification. The primary focus is Biogeoclimatic Ecosystem Classification, the standard for natural resource managers in BC. The course also explores regional examples of site classification.

Prerequisites: BIOL 101-4, or BIOL 103-3 and BIOL 123-1; and BIOL 102-4, or BIOL 104-3 and BIOL 124-1

FSTY 209-4 Forest Biology and Silvics This course explores critical aspects of the biology of forest floor organisms and the autecology of associated regional tree species. The course also examines the biology and ecology of forest ecosystems, the structure and function of forest trees and stands, the influence of biotic and abiotic factors on tree and stand growth, interactions between forest ecosystems and ecological site conditions, and silvicultural attributes of tree species of Western Canada.

Prerequisites: BIOL 101-4, or BIOL 103-3 and BIOL 123-1; and BIOL 102-4, or BIOL 104-3 and BIOL 124-1; and FSTY 201-3

FSTY 305-4 Silviculture Silviculture examines forest ecology, stand dynamics, basic management practices and harvesting. Content includes stand dynamics, natural and artificial regeneration methods, site preparation, intermediate stand treatments, silvicultural systems, forest harvesting concepts and practices, and relationships of natural resource management to silviculture practices. Field trips are required.

Prerequisites: FSTY 201-3, FSTY 205-3, FSTY 209-4, NREM 203-3

FSTY 307-3 Disturbance Ecology and Forest Health This lecture course explores principles and concepts of disturbance ecology, including examples of fire, disease and insects. Links between anthropomorphic disturbances, fire risk and forest health problems, and approaches to forest health management are explored.

Prerequisites: 60 credit hours, FSTY 201-3, FSTY 207-1, FSTY 209-4

FSTY 310-3 Forest Economics Contemporary issues in the allocation of natural resources. Economic concepts and tools applied to the forestry, recreation, and other natural resource sectors.

Prerequisites: ECON 100-3 Precluded: ORTM 310-4

FSTY 317-1 Forest Disturbance Agents This laboratory course focuses on the identification of pathogens and insects of importance in forest health. The course is required for students in the Natural Resources Management degree Forest Ecology and Management major, and it should be taken concurrently with FSTY 307-3. Field trips are required.

Prerequisites: 60 credit hours Co-requisites: FSTY 307-3 Precluded: FSTY 307-4

FSTY 345-3 Wood Materials Science This course provides students with a broad knowledge of wood as a material and introduces various topics of wood science. The topics include: anatomical structure of softwood and hardwood; identification of local wood species; wood-water relationships influencing strength and physical properties; and processing of forest products. Value-added strategies and product diversification through manufacturing and marketing are discussed as well as life-cycle analysis.

Prerequisites: One of: BIOL 103, CHEM 100, ENSC 150, PHYS 100 or PHYS 110

FSTY 403-3 Timber Harvest Planning and Operations This course provides students with an understanding of operational practices in timber harvest planning and implementation. Topics focus on supply chain flow: planning (operational and strategic); field operations and permitting; operations including logging, hauling and road building; and finally manufacturing and marketing. This course has mandatory field trips.

Prerequisites: 60 credit hours

Preclusions: FSTY 498 (Forest Planning and Operations)

FSTY 405-3 Forest Ecosystem Modelling This course introduces students to a range of quantitative models that form the basis of modern forest management and conservation. This course includes an overview of models to evaluate forest dynamics from the scale of individual trees up to forested landscapes; models used to assess and manage forests and their ecosystem services; and models for strategic forest planning.

Prerequisites: FSTY 305-4, or BIOL 325-3 or permission of the instructor

FSTY 407-3 Forest Products Properties, values and processing of forest products including wood, pulp and paper, pharmaceuticals, and other botanical products. Life cycle analysis of products manufactured from wood and its derivatives. Value-added strategies and product diversification through manufacturing and marketing. Field trips required.

Prerequisites: CHEM 100-3 and 101-3

FSTY 408-3 Forest Practices and Management Principles and operational practices for the management of forest land including forest estate planning, harvest scheduling, and legislative requirements.

Prerequisites: Minimum of 90 credit hours

FSTY 415-3 Forest Soils This course examines the distinctive physical, chemical and biological properties of forest soils from an ecological perspective, emphasizing western Canadian examples. Major themes include the role of soils in forest site classifications, carbon and nutrient cycling in forests, soil determinants of forest productivity, and the responses of soils to forest management practices. Field trips and laboratory exercises provide experience in techniques used for assessing forest soil properties and management impacts.

Prerequisites: FSTY 205-3

FSTY 425-3 Soil Formation and Classification Examination of soil formation with emphasis on environmental forces including human activity as a factor of soil formation; distribution and classification of soils of northern and interior BC; correlation of Canadian System of Soil Classification with international systems of classification such as Soil Taxonomy and FAO/UNESCO Soil Map of the World. Field trips are required.

Prerequisites: FSTY 205-3 or permission of the instructor

FSTY 440 (2-6) Internship May be repeated for credit (maximum six credit hours).

FSTY 498-3 Special Topics May be repeated for credit (maximum three credit hours).

FSTY 499-(1-6) Independent Study May be repeated for credit (maximum of six credit hours)

Geography (GEOG)

GEOG 100-3 Environments and People: The Geography of Natural Hazards This course is intended to introduce students to the Earth's physical processes that are hazardous to people. Students will be able to identify which regions of the world are at greatest risk for a given hazard and how humans can mitigate the loss of life and property.

Prerequisites: None Precluded: ENVS 100-3

GEOG 101-3 Human Geographies of Global Change This course examines global issues of development and change from a human geographic perspective. Students focus especially on the interconnectedness of places in the world and the range of local responses to widespread change processes.

Prerequisites: None Precluded: GEOG 201-3

GEOG 111-1 Theory and Practice of Physical Geography This course introduces physical geography students to the theory and practice of physical geography, particularly in BC, through seminars and invited presentations involving professional practitioners in the region and province. A weekend field trip is required. This course is intended for students who want to major in Physical Geography.

Prerequisites: None

GEOG 200-3 British Columbia: People and Places This course provides an introduction to the biophysical and human landscapes of British Columbia with a special emphasis on the relationship of Northern BC to the rest of the province. The course takes a regional approach to understanding the links between the physical geography of the province and its settlement patterns, resource use and economic development.

Prerequisites: None

GEOG 202-3 Economic Geography of Resources and

Sustainability British Columbia is a resource exporting economy that competes in the global marketplace. With a focus on both renewable and non-renewable resources, this course examines economic, community, and environmental issues that support and/or limit sustainable development. Topics include energy, minerals, food, water, natural and cultural amenities, and ecosystem products and services.

Prerequisites: None

GEOG 203-3 Roots, Ruggedness, and Rituals: A Geography of Canada Regionally and nationally, this course examines Canada, its peoples, and our diverse environments. Students consider Aboriginal/non-Aboriginal/Métis identity, Canadian culture, national fault lines, symbols, icons, and trends, focusing on shared patterns and divergent distinctions in Canadian development, changes and future possibilities.

Prerequisites: None

GEOG 204-3 Introduction to GIS for the Social Sciences To manipulate database and spatial information and to create GIS based illustrations and maps. This lab-based introductory course will provide a foundation in GIS for social scientists. Students will incorporate data searching and acquisition, manipulation of information in spreadsheets, reviewing quality of data, spatial properties of geographic information, linking meta-data to spatial features, basic cartographic techniques and map production.

Prereauisites: None

GEOG 205-3 Cartography and Geomatics This course examines mapping techniques and thematic layers, using GIS software in the labs. Topics include coordinate systems, symbolization, terrain depiction and visualization, aerial photography, satellite images and Global Positioning Systems (GPS). It introduces students to the world of maps and to Geographic Information Systems (GIS) technology.

Prerequisites: None

GEOG 206-3 Society and Space Social relations, social identities, and social inequalities are open to geographical exploration. These relations are negotiated and contested in different spaces at different times. This course critically examines the ways in which social relations, identities, and inequalities are produced, their spatial variation, and the role of space in constructing them. Geographic dimensions of various facets of identity (such as gender, ethnicity, "race," class, sexuality, and ability) and the theoretical frameworks that geographers use to analyze them are central.

Prerequisites: None Precluded: GEOG 304-3

GEOG 209-3 Migration and Settlement Urbanization, globalization, and international migration are dynamic processes related to human settlement and are changing our social and physical spaces. This course examines major theoretical approaches to global migration processes and the settlement form and organization resulting from migration, refugee movements, and globalization, with particular emphasis on reconfigured urban and rural spaces in Canada.

Prerequisites: None

GEOG 210-3 Geomorphology The nature and formation of Earth's surface and its major landforms are studied, and methods used to monitor and understand these are demonstrated through lectures and labs. Topics include Earth's surface materials, landforms, weathering, slope movement, and the erosional and depostional effects of gravity, wind, water, waves, and ice.

GEOG 220-3 World Regions: Latin America and the

Caribbean Struggles for land, labour, and resources are central themes in Latin American and the Caribbean. We examine this diverse region as a landscape of inequality with extremes in poverty and wealth dating from the European invasion. Uneven development across time and space is characterized by growing hunger, narcotrafficking, agro-exports, resource extraction, organized crime, undocumented migration, and environmental degradation, as well as resilience and grassroots mobilization for positive change.

GEOG 222-3 World Regions: Russia This course explores the interaction of physical and human landscapes of Russia. Special attention is paid to nationality issues, energy and other resource developments, the changing state of environmental management, and Russia's shifting geopolitical role in the world.

Prerequisites: None

GEOG 300-3 Geographic Information Systems This lab-based course examines the data management and analysis capabilities of GIS, with special emphasis on natural resources and environmental studies. Topics include methods of data input, coordinate systems, data sources, attributes, formats and conversion, digital elevation data, raster-vector models, data availability and quality. Lectures introduce two labs per week.

Prerequisites: 30 credits or permission of instructor

GEOG 301-3 Cultural Geography Cultural products, such as music, cuisine, language, and religion, have spatial expressions. Through cultural norms, products and activities, we create places and construct landscapes. This course examines the influence of power relations, cultural imperialism, globalization, and cultural resistances on the human organization of space and on how people engage with place. This is a writing-intensive course, emphasizing improvement of upperdivision level written communication through iterative editing.

Prerequisites: 60 credit hours and at least one lower-division GEOG course, or permission of instructor

GEOG 305-3 Political Ecology This course examines the geopolitics and power relations of environmental resource use, knowledge production, policy, and decision-making. It focuses on access, power, and ownership with respect to environment, environmental discourses, and resources, using geography as a lens for understanding political ecology, and political ecology as a lens for examining environmental relationships.

Prerequisites: 60 credit hours or permission of the instructor

GEOG 306-3 Geography of International Development: Places, People, Policies and Promises Using examples from "the local to the global," this course investigates development theory and practice, including key theories, concepts, and trends. We use international case studies to understand global inequality, debt, foreign aid, disasters, displacement, development-related health issues, gender considerations, and differential access to services and assistance. The course examines persistent problems and seeks examples of progress, promise and hope.

Prerequisites: 60 credit hours or permission of instructor

GEOG 307-3 Changing Arctic: Human and Environmental Systems Climate change, energy security, globalization, pollution, and self-determination in the Arctic are major issues that confront both Arctic societies and the world at large. This course examines the cultural, economic, environmental, political and social dimensions of sustainable development in the Circumpolar North through a geographic lens.

Prerequisites: 60 credit hours or permission of the instructor

GEOG 308-3 Environments of Health and Care This course examines the importance of environments of daily living to individual and collective experiences of health and health care.

Prerequisites: Any 6 credit hours of lower-division Geography or permission of the instructor

Precluded: HHSC 421-3

GEOG 310-3 Hydrology This course is an introduction to physical hydrology. It examines the components of the hydrological cycle, and investigates the processes of water movement and storage in the environment

Prerequisites: ENSC 201-3 and STAT 240-3, or permission of the instructor

Precluded: NREM 410-3

GEOG 311-3 Drainage Basin Geomorphology This course focuses on hillslope and fluvial processes in drainage basins. Laboratory exercises introduce quantitative methods to understand patterns of sediment production, movement and storage in mountain watersheds.

Prerequisites: GEOG 210-3, PHYS 100-4 and STAT 240-3, or permission of the instructor

GEOG 312-3 Geomorphology of Cold Regions This course provides a detailed examination of the processes and landforms of cold regions.

Prerequisites: GEOG 210-3 or permission of the instructor Precluded: GEOG 412-3

GEOG 320-3 Sedimentology This course considers processes that deposit sediments in Earth's diverse environments that include lakes, rivers, and oceans. At the end of the course students will be able to reconstruct environmental conditions that led to formation of stratified earth materials. Principles of lithostratigraphy, biostratigraphy, chronostratigraphy, sequence stratigraphy, and the facies concept are key topics of the course.

Prerequisites: GEOG 210-3

GEOG 333-3 Geography Field School Students apply field methods in physical and/or human geography towards an integrated study of local and global environments. Note: When this course is offered with predominantly human geography content, APEGBC will not consider it suitable for a Professional Geoscience credit.

Prerequisites: Upper-division standing

GEOG 401-3 Tenure, Conflict and Resource Geography This course examines global resources and their role in questions of conservation and economic development. Emphasis is placed on global and international resource issues and the role of public policy.

 $\it Prerequisites: 60$ credit hours and at least one of GEOG 100-3, GEOG 101-3 or GEOG 202-3

GEOG 403-3 First Nations and Indigenous Geography This course analyzes First Nations and Indigenous traditional land tenure systems, colonial processes of land alienation, and Indigenous methods for regaining control over territory, including land claims, co-management, and legal reforms. Case studies are drawn from Canadian and international examples.

Prerequisites: 60 credit hours or permission of the instructor

GEOG 405-3 Fluvial Geomorphology This course investigates river channel morphometry and landforms developed by running water: and focuses on the physical processes and techniques of measurement. Weekend field trips are required.

Prerequisites: GEOG 311-3 or permission of the instructor

GEOG 411-3 Quaternary and Surficial Geology This course examines geomorphic processes and environmental change in BC during the last two million years of Earth's history.

Prerequisites: GEOG 311-3 or permission of the instructor

GEOG 413-3 Advanced GIS This course is a project- oriented course following on from GEOG 300-3 and including topics such as spatial data set construction, data conversion, advanced digital elevation modelling, visualization and integration of raster imagery.

Prerequisites: GEOG 300-3 or permission of the instructor

GEOG 414-3 Weathering Processes This course provides a detailed investigation of weathering processes and their applied aspects.

Prerequisites: GEOG 312-3 or permission of the instructor

GEOG 420-3 Geographies of Environmental Justice This course examines ongoing environmental justice debates over expertise, access, rights, and compensation, in the context of environmental racism and responses to it. It considers connections between space, places, identity, and justice in contaminated environments. It explores scholarship and activism, and students learn about Canadian and international case studies related to resource extraction; manufacturing and industrial processes; waste disposal; access to basic services; trade; and tourism.

Prerequisites: 60 credit hours and at least one GEOG course

GEOG 424-3 Social Geography of Northern Communities This advanced seminar course examines the social geography of rural and small-town communities within the specific context of the North. The case-study content focuses on specific examples from northern British Columbia. This is a project-based course where students work towards a class-based social geography study of selected northern communities.

Prerequisites: 60 credit hours or permission of the instructor

GEOG 426-3 Geographies of Culture, Rights and Power This seminar examines geographical approaches to culture, rights, and power as they relate to issues of political violence experienced by indigenous peoples, labour organizations, and social movements. Primary geographical focus is on the Mesoamerican region, particularly Guatemala, El Salvador, and Chiapas, Mexico. Implications for Canada and the United States are explored through consideration of refugee movements, foreign policy, and grassroots solidarity organizing.

Prerequisites: GEOG 206-3 or GEOG 301-3 or permission of instructor Precluded: GEOG 498-3 Culture, Rights and Power

GEOG 428-3 Health Geography in Practice Students conduct research on health geography topics approved by the instructor. Students may choose to work individually or in groups.

Prerequisites: 60 credit hours and GEOG 308-3, or permission of the instructor

GEOG 430-(3-6) Undergraduate Thesis Student must have completed at least 90 credit hours of study and be a Geography Major. The thesis may be taken in one or two semesters in the senior year.

Prerequisites: Permission of the instructor and the Program Chair

GEOG 432-3 Remote Sensing This course covers digital processing of satellite imagery and integration with raster and vector GIS technology in natural resources and remote sensing of the environment. Topics include sensor platforms and data collection, preprocessing, enhancement, classification, change detection, multi-data integration and vectorization.

Prerequisites: GEOG 205-3 or GEOG 300-3 or permission of the instructor

GEOG 440-(2-6) Internship May be repeated for credit (maximum six credit hours).

GEOG 457-3 Advanced Remote Sensing This project-oriented course focuses on advanced classification procedures incorporating digital elevation data, fuzzy and object-oriented classification, and new millennium data sources including ASTER, RADAR, MODIS, LiDAR and high-resolution scenes. Repeat imagery is used to assess local and global changes in land cover, oceanic, atmospheric and/or cryospheric environments.

Prerequisites: GEOG 432-3 or permission of the instructor

GEOG 498-(1-3) Special Topics May be repeated for credit (maximum three credit hours).

GEOG 499-(3-6) Independent Studies Concentration is on a particular topic agreed upon by a member of the faculty and the student (maximum six credit hours).

Prerequisites: Permission of the Program Chair

Health Sciences (HHSC)

Students enrolling in Health Sciences courses with prerequisites are required to have completed all prerequisite courses for those courses with a C or better, or have permission to enroll from the School Chair.

HHSC 101-3 Introduction to Health Sciences I: Issues and Controversies This course provides a review of current issues and controversies with respect to individual and population health. Topics covered include infectious disease, cancer, genetic disease, behavioural determinants of health, addictive behaviour, eating behaviour and the role of nutrition in chronic disease.

Prerequisites: None

HHSC 102-3 Introduction to Health Sciences II: Rural and Aboriginal Issues This course will provide an overview of individual and population health, health care systems, legislation, and the roles of the various health care professions in rural and aboriginal communities. Models of interdisciplinary cooperation, models of community health, and ethical issues are also covered.

Prerequisites: None

HHSC 103-3 Health Care Systems This course examines health care systems from a public versus private perspective and explores how various systems impact the health and well-being of patients.

Prerequisites: Enrolment in the BHSc program, or permission of the instructor

HHSC 105-3 Functional Anatomy The purpose of this course is to provide a macroscopic examination of the human body. Lecture topics include musculoskeletal system and mobility, and major organ systems including cardiovascular, digestive and neurological, with emphasis on how these systems integrate for body function. A laboratory component is included. This course is appropriate for students who intend to enter health profession fields.

Prerequisites: Biology 12 and Chemistry 11

HHSC 110-3 Basic Microbiology Presents the basic principles of microbiology with an emphasis on the relevance of these principles to human health. A survey of the major types of microorganisms and a discussion on how they are classified and identified is addressed. An introduction to virology and bacterial metabolism including environment factors which affect microbial growth and survival, is presented. A laboratory component is included.

Prerequisites: Biology 12 and Chemistry 11

HHSC 111-4 Anatomy and Physiology I This course is the first half of a comprehensive survey of the structures and functions of the human organ systems. Lecture topics include cellular physiology, histology, and studies of the integumentary, skeletal, nervous and endocrine systems. A laboratory component is included. This course is appropriate for students who intend to enter health profession fields.

Prerequisites: Biology 12 and Chemistry 11

Recommended: HHSC 105-3

HHSC 112-4 Anatomy and Physiology II This course is a continuation of HHSC 111-4. It is designed to cover the anatomy and physiology of the muscular, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Emphasis is on the importance of homoeostasis and how it is maintained by the concerted proper functioning of the body systems. A laboratory component is included.

Prerequisites: HHSC 111-4

HHSC 201-3 Ethics and Law in Health Care This course examines ethical and legal concepts as applied to health care and health care research. Further, students explore how new technology and therapeutic practices change the parameters of ethical and moral reasoning, and the impact this has on health law. In addition, students are exposed to ethical practices and policies that form the foundation of health related research.

Prerequisites: Enrolment in the BHSc program, or permission of the instructor

Precluded: NURS 308-3

HHSC 301-3 Pathophysiology This lecture course examines central concepts in pathophysiology. Topics include cell-tissue biology, mechanisms of self-defense, and alterations to organs and systems, all in relation to human health.

Prerequisites: HHSC 112-4

Precluded: NURS 202-3, NURS 301-3

HHSC 305-3 Human Physiology I This course begins a comprehensive and detailed review of the mechanistic and integrative physiology of the human body. Throughout HHSC 305-3 Human Physiology I and HHSC 306-3 Human Physiology II the topics emphasized are the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, and urogenital systems, as well as relevant cell biology and histology. Physiology-related research science and animal biology are covered as appropriate. Anatomy is coveredly only as necessary for ensuring a complete understanding of body functions.

Corequisites: HHSC 325-1

Prerequisites: HHSC 105-3, or HHSC 111-4 and HHSC 112-4, and

completion of 30 credit hours

HHSC 306-3 Human Physiology II This course continues the comprehensive and detailed review of the mechanistic and integrative physiology of the human body that was started in HHSC 305-3 Human Physiology I. Thorughout HHSC 305-3 Human Physiology I and HHSC 306-3 Human Physiology II the topics emphasized are the integumentary, skeletal, muscular, nervous, endocrine, cardiovascular, lymphatic, immune, respiratory, digestive, and urogential systems, as well as relevant cell biology and histology. Physiology-related research science and animal biology are covered as appropriate. Anatomy is covered only as necessary for ensuring a complete understanding of body functions.

Corequisites: HHSC 326-1

Prerequisites: HHSC 305-3 and HHSC 325-1

HHSC 311-3 Nutrition This course reviews nutrient requirements across the lifespan and physiological connections of diet to health and disease. Therapeutic aspects of parenteral nutrition (total and peripheral) and special diets in disease states are covered.

Prerequisites: Enrolment in the BHSc program and completion of 30 credit hours.

Precluded: NURS 206-3, NURS 303-3, ANTH 311-3

HHSC 325-1 Human Physiology I Lab In this laboratory course, students apply and expand on principles of human physiology covered in the HHSC 305-3 lectures. Students normally take this course concurrently with HHSC 305-3.

Corequisites: HHSC 305-3

Prerequisites: HHSC 105-3, or HHSC 111-4 and HHSC 112-4, and

completion of 30 credit hours

HHSC 326-1 Human Physiology II Lab In this laboratory course students apply and expand on principles of human physiology covered in the HHSC 306-3 lectures. Sutdents normally take this course concurrently with HHSC 306-3.

Corequisites: HHSC 306-3

Prerequisites: HHSC 305-3 and HHSC 325-1

HHSC 351-3 Research Design and Methods for Health

Sciences This course examines qualitative and quantitative research methods and design in the health field and the ethical and legal issues associated with health care research.

Prerequisites: STAT 240-3 or ECON 205-3, upper-level standing in the BHSc program, or permission of the instructor

HHSC 370-3 Occupational Health This course introduces students to the scientific basis of occupational health, specifically the relevant principles and concepts of injury prevention, disability management, ergonomics, toxicology, wellness and the general concepts of healthy workplaces. The nature of common occupational health hazards and their effect on humans is examined. Examples of common preventative and protective measures and controls are also reviewed.

Prerequisites: Upper-level standing in the BHSc program, or permission of the instructor

HHSC 401-3 Principles of Epidemiology This course applies epidemiological principles in the examination of patterns of disease and disability among populations, particularly those in northern latitudes. It introduces students to the interpretation of vital statistics, the critique of epidemiological study design and the principles of screening.

Prerequisites: Upper-level standing in the BHSc program or upper-level standing and enrolment in the Statistics minor Precluded: NURS 306-3, HHSC 350-3, HHSC 601-3

HHSC 421-3 Medical Geography This course examines the importance of environments of daily living to individual and collective experiences of health and health care.

Prerequisites: Upper-level standing in the BHSc program Precluded: GEOG 308-3

HHSC 440-(3-6) Special Topics in Health Sciences The topics for this course vary, depending on student interest and faculty availability. This course may be repeated for up to 6 credits total (with the permission of the instructor and Program Chair).

Prerequisites: Upper-level standing in the BHSc program or permission of the instructor

HHSC 451-3 Health Sciences Research Project This course enables students, individually or in groups, to explore a particular health issue in depth by defining a problem, collecting, analyzing and interpreting secondary and primary data, and presenting results in written and oral formats.

Prerequisites: HHSC 351-3, or permission of the instructor

HHSC 471-3 Health and Chronic Disease Management This course provides students an opportunity to examine critically the current health status of special populations including Aboriginal people, rural communities, people with disabilities, and those living with chronic illness. Students are introducted to current research trends in chronic disease management, which they use to design and develop interventions that improve health and wellness in these populations.

Prerequisites: Upper-level standing in the BHSc program

HHSC 473-3 Health Promotion This course examines health promotion theories, principles, and underlying philosophies. Students identify and critique health promotion issues and also gain experience in developing strategies to promote health and well-being at individual, group and community levels.

Prerequisites: Upper-level standing in the BHSc program

HHSC 490-6 Honours Thesis In this course students pursue an independent research project. Credit for this course is based on designing and implementing a research methodology, analyzing data and presenting findings in a thesis format. This course is a total of 6 credit hours and is normally completed over the September and January semesters.

Prerequisites: HHSC 451-3 and acceptance into BHSc Honours program

HHSC 497-3 Senior Seminar This course provides an integrative seminar on research design and methodologies for advanced students. Enrolment is restricted to fourth-year Bachelor of Health Sciences Honours students who have completed 90 credit hours.

 $\ensuremath{\textit{Prerequisites:}}\xspace$ HHSC 451-3 and acceptance into BHSc Honours program

History (HIST)

HIST 190-3 World History to 1550 This course explores the history of Asia, Africa, Europe and the Americas from human origins to 1550. Although the course is organized chronologically, it does not cover all or even most aspects of World History during this time period. Rather, it focuses on certain themes to consider the development of various civilizations. At the same time, students work on developing their skills as historians by reading, writing and discussing primary and secondary sources through a number of different historical lenses.

Prerequisites: None

HIST 191-3 World History since 1550 This course examines the history of the world from the mid-sixteenth century through the end of the twentieth. The global movement of people, ideas, and econmoic practices receives particular attention, as do processes of imperialism and colonialism. Students are also introduced to the discipline of History and to the skills of document analysis, historical writing, and primary source research.

Prerequisites: None

HIST 205-3 Surveys in National History This course examines the political, social, and economic history in one or more specified nations and periods under study. The nation(s) under study vary according to the expertise of the instructor and may include Australian, Japanese, Chinese, or British national history. With the permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: None

HIST 210-3 Canada before Confederation Canada is still profoundly shaped by its history before 1867. This course examines the political, social and economic development of Canada from earliest times.

Prerequisites: None

HIST 211-3 Canada since Confederation This course examines development of Canada since 1867, with emphasis on social movements, economic development, politics and political protest, and regionalism.

Prerequisites: None

HIST 215-3 Global History of Indigenous People Our understanding of Indigenous history in one location can be much improved if the topic is studies in broader context. In this course, students study the history of Indigenous peoples in various places around the world.

Prerequisites: None Precluded: HIST 110-3

HIST 221-3 United States from Colonization to 1877 This is an introduction to the formation of the United States from colony to nation, addressing themes of cultural, social, political and economic history and the relationships among Aboriginal, African and European peoples.

Prerequisites: None

HIST 222-3 The United States since 1877 This course is an introduction to the formation of the United States after Reconstruction, addressing themes of cultural, social, political and economic history.

Prerequisites: None

HIST 231-3 Medieval Europe This course is an introduction to the cultural, spiritual, social and politicial life of Europe from the fifth to fifteenth centuries.

Prerequisites: None Precluded: HIST 230-3

HIST 232-3 Early Modern Europe This survey course examines the political, economic, social, religious and cultural life of Europe from 1500-1789.

Prerequisites: None Precluded: HIST 230-3

HIST 240-3 The Expansion of Europe This course examines the expansion of Europe from the Renaissance to the French Revolution. The creation of European empires and settlements in the western hemisphere are highlighted.

Prerequisites: None

HIST 241-3 The Age of Empire: Europe and the World, 1789-1914 This survey course examines relations among Europe and Asia, Africa and the Americas from the French Revolution to the First World War.

Prerequisites: None

HIST 256-3 Introduction to Crime and History This course introduces students to the historic context and debate over questions of crime, punishment, and reformation. The specific emphasis depends on the instructor's expertise and the course may include examinations of police history, captial punishment, the creation of penitentiaries, or the modern phenomenon of serial murder.

Precluded: HIST 125-3

HIST 257-3 Public Law in Canada Public law includes the areas of law regulating the internal operations of governments and state agencies, the interactions among orders or levels of government and the interactions between state and non-state actors. Subjects covered in this course include constitutional law, administrative law, human rights law and criminal law and procedures.

Precluded: POLS 257-3

HIST 258-3 Private Law in Canada Private law refers in general to the areas of law that regulate the interactions among non-state actors including citizens, corporations and non-state agencies. The course covers such areas as property law, torts, contracts, family law and commercial law in Canada.

Precluded: POLS 258-3

HIST 280-3 Colonial Latin America This course is an introduction to the history of Latin America from the fifteenth century to the early nineteenth century. Topics to be discussed include Amerindian polities and empires on the eve of contact with Europe; contact, conquest, and colonization; conversion and religious adaptation; colonial imperial administration; Latin American economy in the world system; cultural conflict, resistance, and hybridization among European, African, and Aboriginal peoples; and the gradual emergence of distinctly Latin American identities.

Prerequisites: None

HIST 281-3 Republican Latin America This course is an introduction to the history of modern Latin America from the Wars of Independence in the early nineteenth century to the present day. Topics discussed include the Wars of Independence; personalist rule and institutional instability in the first half of the nineteenth century; class, race, gender, and Latin American identity; neocolonialism and the reintegration of Latin America into the global economy; modernity and Latin American nationalism; socialist revolution and conservative dictatorship; and neoliberalism and its discontents at the end of the twentieth century.

Prerequisites: None

HIST 290-3 The Contemporary World This course explores the conflicting identities and aspirations of local, national, and international groups and communities in the 20th century world. The themes of social movements, ethnicity, nationalism, imperialism, internationalism, and decolonization are explored from a global perspective.

Prerequisites: None

HIST 295-3 History of Law This course examines the historical origins and development of the law and its subsequent evolution within the social, political, economic and legal contexts.

Prerequisites: None

HIST 300-3 Historiography: The Nature of the Historical

Discipline Taken in the first semester of the third year of study, this course examines the nature of history as a discipline of study and how historians approach their craft.

Prerequisites: HIST 190-3 and HIST 191-3

HIST 301-3 The Canadian North This course studies the history of the provincial and territorial Canadian North with emphasis on the precontact period, Native-white relations, and the impacts of government on the region.

Prerequisites: HIST 210-3 or HIST 211-3 or permission of the instructor

HIST 302-3 The Prairie West This course considers the history of the three prairie provinces from the coming of Europeans to the present with emphasis on Native peoples, the fur trade, the development of society and the economy, political protest and regional alienation.

Prerequisites: HIST 210-3 or HIST 211-3 or permission of the instructor

HIST 303-3 British Columbia This course examines the history of the province from the coming of Europeans to the present, with emphasis on Native cultures, the fur trade, colonization, the development of institutions, society and the economy, as well as the growing sense of regional identity.

Prerequisites: HIST 210-3 or HIST 211-3 or permission of the instructor

Precluded: HIST 406-3

HIST 309-3 Women in Canada This course explores the constructions of Canadian womanhood and experiences of Canadian women from early contact to the present. Themes include First Nations women, women in colonial society, women and work, women and reform, women and the state, lesbian women, and feminism.

Prerequisites: Upper-division standing or permission of the instructor Precluded: HIST 402-3

HIST 311-3 History of Feminism This course surveys the history of those various political, social and cultural movements (suffragism, women's liberation etc) that have combined to create the phenomenon of feminism. Attention is also be devoted to the diverse theories, ideas and values that underpin contemporary feminism.

Prerequisites: Upper-division standing or permission of the instructor Precluded: WMST 311-3

HIST 312-3 An Introduction to the History of Gender This course explores issues of gender in historical context using a case study approach.

Prerequisites: Upper-division standing or permission of the instructor Precluded: WMST 270-3/WMST 312-3, and HIST 270-3

HIST 320-3 The Western United States This class focuses on social relations in the US West from pre-contact times to the present and on the West's mythical place in US history.

Prerequisites: Upper-division standing or permission of the instructor

HIST 325-3 Sex Changes: An Introduction to the History of Sexuality The course examines the variability of sexuality, and its connection with larger historical processes, from ancient times to the present; while offering a broad perspective on the sexual past, the course emphasizes the West after 1800.

Prerequisites: None Precluded: HIST 120-3

HIST 326-3 History through Film
This course indroduces students to the questions and issues arising from the use of historical settings, characters, and events in film. The specific emphasis depends on the instructor's expertise and the course may include examinations of history in film in varied settings or themes. With the permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: None Precluded: HIST 130-3

HIST 331-3 Lectures in Military History This course examines military history in one or more specified nations and/or periods. The topics under study vary according to the expertise of the instructor and may include: the origins and causes of war; the impact of new technologies on tactics and strategy; military and naval innovation and resistance to innovation; the changing relationship of offense and defense; the concept of mass war; and the relationship of military institutions to society. With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: Upper-division standing or permission of the instructor

HIST 332-3 Lectures in Social History This course examines the social history in relation to regional, national, or international contexts through time in one or more specified nations and/or periods. The topics under study vary according to the expertise of the instructor and may include major social changes, the social origins of major historical events, or the history of particular social movements. With the permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: Upper-division standing or permission of the instructor

HIST 333-3 Lectures in Cultural History This course examines cultural history in one or more specified nations and/or periods. The topics under study vary according to the expertise of the instructor and may include surveys in cultural events such as the Renaissance or Modernism or examination of how events such as war, economic crisis, technological change, or changing notions of gender or race have shaped culture through time or within specific periods or regions. With the permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: Upper-division standing or permission of the instructor

HIST 334-3 Lectures in Legal History Legal history studies the development of law and its interaactions with state, society, and culture. This course examines legal history in a variety of contexts and historical periods.

Prerequisites: Upper-division standing or permission of the instructor

HIST 335-3 Global History of Public Health
This course explores the history of public health in a global context from the mid-nineteenth century to the present day. It examines how health has played an integral role in the creation of nation-states, debates about morality and reproduction, and ideas about race. It also provides students with new perspectives on global history and the connections that transcended the boundaries of individual countries.

Precluded: HIST 332-3

HIST 340-3 Politics and Society in Twentieth Century

China This course examines Chinese political and social development through the 20th century with primary attention paid to the comparison of past and present in state building, economic development and social change.

Precluded: POLS 309-3

HIST 355-3 Russian Imperial History This course explores the history of Imperial Russia from the eleventh century to the Russian Revolution of 1917. It focuses on Russia and its expansion, covering a range of themes including centre-periphery relations, Indigenous peoples, the peasantry, women, and revolution, with a particular focus on the north.

Prerequisites: Upper-division standing or permission of the instructor

HIST 356-3 Soviet History This course will explore the history of the Soviet Union from the Bolshevik Revolution of 1917 to break-up. Themes focus on the development of the Soviet Union, emphasizing Soviet power and its impact on peripheral areas. The roles of Aboriginal peoples, nationalism, women, and culture are studied with particular focus on the north.

Prerequisites: None

HIST 360-3 An Introduction to Environmental

History Environmental history examines changing relationships between humans and the environment, including how human societies have been shaped by the environment, how environments have influenced human societies, and how humans have thought about the environment. This introduction to the field includes a global perspective but empahsizes North America, particularly Canada.

Prerequisites: None Precluded: HIST 260-3

HIST 365-3 Medieval Spain As an overview of Iberian history from the fifth to the early sixteenth centuries, this course emphasizes the interaction of Christians, Muslims, and Jews, as well as the cultural and political distinctiveness of Castile and the Crown of Aragon during the medieval period.

Precluded: HIST 333-3 Lectures in Cultural History: Medieval Spain

HIST 380-3 Modern Mexico This course examines the history of Mexico from Independence in 1821 to the present, with emphasis on state building, economic development, and cultural transformations.

Prerequisites: Upper-division standing or permission of the instructor

HIST 390-3 Aboriginal People in Canada Lectures and readings examine the history of Aboriginal people in Canada since the earliest times.

Prerequisites: HIST 210-3 or HIST 211-3 or permission of the instructor

Precluded: HIST 400-3

HIST 407-3 Topics in Local History/Methodology This course examines the craft of history by focusing on the history of localities in northern British Columbia. Students are expected to conduct their own research using primary sources. With the permission of the Chari, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 421-3 Topics in Environmental History This course explores aspects of environmental history in a variety of geographic settings in various historical periods. The precise content of the course varies from year to year depending on the expertise of the instructor. With the permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 440-(3-6) Internship in History This is an academic course delivered in relevant workplaces (museums, archives, etc). Students are supervised in a manner that enables them to integrate their academic skills with practical application. This course may be repeated once for a total of six credits.

Prerequisites: History interns must be History majors who have completed 60 credit hours. Permission of the Chair of History is required for registration

HIST 441-3 Internship in Legal Studies This is an academic work study course delivered in relevant workplace settings where students experience the work environment in an assortment of law and legal services occupations. Permission of the Chair is required for registration.

Prerequisites: HIST 257-3 or POLS 257-3 and HIST 258-3 or POLS 258-3

HIST 453-3 Topics in the History of Gender This course studies the gendered experience of men and women in various contexts. With permision of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 454-3 Topics in Women's History This course examines the diversity of women's experience in various contexts. With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 456-3 Topics in Cultural Encounters Students examine cross-cultural relations in different parts of the world. With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 458-3 Topics in Law, Order, and Society This course explores the historical interrelationships of law, authority, and social ordering in several geographic contexts. With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 490-3 Topics in Historiography This course examines particular themes in the history of history as a discipline. Topics might include the study of a particular school of historical thought, different interpretations of a major historical event, noteworthy historical controversies or the work of a significant historian. With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 and one additional History course or permission of the instructor

HIST 492-3 Topics in Cultural History This course examines various themes in the history of culture. Topics might include major developments in the history of culture such as the Renaissance or Modernism. The ways in which major historical events such as the Reformation or the First World War have reshaped culture or particular cultural movements (such as classicism of 1960s counter-culture). With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 493-3 Topics in Social History This course examines various themes in social history. Topics might include major social changes such as the Industrial Revolution or Canadian urbanization. The social origins of major historical events such as the Reformation or the Russian Revolution or particular social movements (such as socialism or utopianism). With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 494-3 Topics in Aboriginal History In seminars and intensive primary and secondary research, students examine particular aspects of aboriginal history in Canada. With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 498-3 Topics in International History Students examine particular aspects of international history as selected by the instructor. With permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 300-3 or permission of the instructor

HIST 499-3 Independent Study Offered by special arrangement between student and instructor, this course enables students to read in depth in an area of history not normally covered in established courses. With the permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: HIST 190-3, HIST 191-3, HIST 300-3 or permission of the instructor

HIST 500-3 Honours Historiography: Contemporary Theories and Methods This course traces the development of modern historical thought.

Prerequisites: HIST 300-3 and admission to Honours Program or permission of the instructor

HIST 501-3 Honours Directed Readings This course consists of specialized readings developed in consultation with, and supervised by, a faculty member in the History Department.

Prerequisites: Admission to Honours Program

HIST 505-6 Honours Thesis The Honours Thesis consists of a specialized research project developed in consultation with, and supervised by, a faculty member in the History Department. Credit is based on the presentation of research results in a formal paper of 7,500 to 10,000 words, and defended in an oral examination (the examining committee to consist of the supervisor and a minimum of three additional History Faculty members).

Prerequisites: HIST 500-3, HIST 501-3, and maintenance of a minimum GPA of 3.33

Precluded: HIST 502-3 and HIST 503-2

Integrated Analytical Skills & Knowledge (IASK)

IASK 101-3 Ways of Knowing This course introduces students to the "ways of knowing" that inform and shape the Humanities and Social Sciences. It is based on three main questions related to knowledge: What is it and how is it defined? How do we assess it? How do we communicate it? Related questions include: What form does knowledge take? What counts as knowledge? Who has the power to define what counts as knowledge? Is there only one "truth"? How do we know what is credible? How do we share knowledge? Who gets to share knowledge? In other words, is knowledge political? What practices define the ways Humanities and Social Sciences disciplines define, assess and communicate knowledge? Student participation in "hands-on" learning is a key element of the course structure.

Co-requisites: Students will be required to register in all six IASK courses offered that year

IASK 102-3 Waves of Globalization "Globalization" is one of the most popular words in the Social Sciences today. It is also one whose meaning has been much debated. The purpose of this course is to introduce students to the ways in which globalization has occurred, its causes and its consequences, as a way of better understanding what the concept means and how it affects us today.

Co-requisites: Students will be required to register in all six IASK courses offered that year

IASK 103-3 Foundations of Learning I This course parallels and complements the other two IASK courses offered during the same semester, and integrates foundational readings and course content. The course focuses on critical thinking; academic reading and writing; oral presentation; library skills; and peer learning. Students meet the course objectives by working together in cohorts to discuss and practice university-level standards for writing and critical thought.

Co-requisites: Students will be required to register in all six IASK courses offered that year

IASK 104-3 Peoples, Places and Culture This course focuses on how people are shaped by and shape their worlds and where they live. People's attachment to place is meaningful and the sense of place influences our identity and our social and cultural interactions with others and with the world. Different cultures and peoples within those cultures may hold various and diverse meanings of place. One person throughout their lifetime may even understand their place, and their place in the world, in different and changing ways. All of us are always "in place" somewhere. The goal of this course is to become aware of the impact "being in place" has on our lives and the lives of others by exploring the key concepts of place, identity and belonging.

Co-requisites: Students will be required to register in all six IASK courses offered that year

IASK 105-3 What is Security? Focusing on different interpretations of the concept of security, students explore how security is subject to various interpretations over time and how different locations in society and across cultures can result in alternative understandings of security.

Co-requisites: Students will be required to register in all six IASK courses offered that year

IASK 106-3 Foundations of Learning II This course parallels and complements the other two IASK courses offered during the same semester, and integrates foundational readings and course content. The course focuses on critical thinking; academic reading and writing; oral presentation; library skills; and peer learning. Students meet the course objectives by working together in cohorts to discuss and practice university-level standards for writing and critical thought.

Co-requisites: Students will be required to register in all six IASK courses offered that year

IASK 107-3 Special Topics This course is one of the programs "big question courses" that is part of the IASK program. Based on themes of "intersections and conversations," the curriculum celebrates and respects the past, challenges students to think in diverse and creative ways, and fosters awareness of and respects the past, challenges students to think in diverse and creative ways, and fosters awareness of and connection to our communities and the world. This course may be repeated to a maximum of 6 credit hours.

 $\ensuremath{\textit{Co-requisites:}}$ Students will be required to register in IASK courses offered that year

International Exchange (INTX)

INTX 288-(1-18) International Exchange Program Undergraduate students register in this course when they have been accepted to participate in a formal international exchange program at one of UNBC's partner institutions.

Prerequisites: completion of 30 credit hours of course work or permission of the academic advisor and the Exchange Student Selection Committee. At least 24 of these credit hours must be completed at UNBC. A student may register in this course more than once for a maximum of 30 credit hours unless special permission is granted to complete additional credit hours.

INTX 488-(1-18) International Exchange Program Undergraduate students register in this course when they have been accepted to participate in a formal international exchange program at one of UNBC's partner institutions.

Prerequisites: completion of 60 credit hours of course work or permission of the academic advisor and the Exchange Student Selection Committee. At least 24 of these credit hours must be completed at UNBC. A student may register in this course more than once for a maximum of 30 credit hours unless special permission is granted to complete additional credit hours.

International Studies (INTS)

INTS 100-3 Introduction to Global Studies This foundation course introduces students to the study of international and global structures, actors, processes, ideas, issues, and events with the aim of understanding and explaining large-scale change in our world. The course is organized around four "great domains" of global studies: environment and sustainability; culture and diversity; politics, security and social justice; and economy and international development...

Prerequisites: None Preclusions: INTS 205-3

INTS 121-3 Beginning Japanese I This introductory Japanese language course focuses on the four basic linguistic skills of listening, speaking, reading, and writing. Students learn typical daily vocabulary and are introduced to Japanese culture through the language. Students learn two phonetic alphabets, hiragana and katakana, as well as approximately 60 kanji (Chinese characters)

Prerequisites: This course is designed for students who have no prior knowledge of the Japanese language. It is not open to native speakers. Permission of the instructor is required for students who have completed Grade 10 Japanese or equivalent courses, or who have at least one Japanese speaking parent

INTS 122-3 Beginning Japanese II INTS 122-3 is a continuation of INTS 121-3. Students continue to develop their Japanese language skills in listening, speaking, reading, and writing. They are also given a deeper introduction to Japanese culture. This course is more grammar intensive than INTS 121-3, strengthening the foundations set up in that course. Sixty additional kanji are introduced (for a cumulative total of 120).

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 121-3 or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have completed Grade 11 Japanese, or who have prior knowledge of Japanese or who have at least one Japanese speaking parent.

INTS 131-3 Beginning Russian I This introductory Russian language course begins with learning the Cyrillic alphabet and the essentials of Russian grammar, and then focuses on the four basic linguistic skills of listening, speaking, reading, and writing. Students are introduced to aspects of Russian culture through the language.

Prerequisites: This course is designed for students who have no prior knowledge of Russian. It is not open to native speakers.

INTS 132-3 Beginning Russian II INTS 132-3 is a continuation of INTS 131-3. Students increase their proficiency in listening, speaking reading, and writing, while learning more Russian grammar and expanding their vocabulary. Appreciation of Russian culture through language continues.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 131-3, or obtain permission of instructor to continue. Permission of the instructor is also required for students who have prior knowledge of Russian.

INTS 151-3 Beginning International Language I (international language not regularly offered at UNBC) An introduction to conversational and written elements of the language using materials from everyday situations.

Prerequisites: None

INTS 152-3 Beginning International Language II Continuation of INTS 151-3.

Prerequisites: INTS 151-3

INTS 161-3 Beginning Chinese I This introductory Mandarin Chinese language course focuses on the four basic linguistic skills of listening, speaking, reading, and writing. Students practice pronouncing the tones of spoken Mandarin. Students learn typical daily vocabulary, are introduced to Chinese characters, and become acquainted with Chinese culture through the language.

Prerequisites: This course is designed for students who have no prior knowledge of the Chinese language. It is not open to native speakers. Permission of the instructor is required for students who have completed Grade 10 Chinese or equivalent courses, or who have at least one Chinese speaking parent.

INTS 162-3 Beginning Chinese II INTS 162-3 is a continuation of INTS 161-3. Students continue to develop their Chinese language skills in listening, speaking, reading, and writing. Perfecting pronunciation is emphasized, as well as improving conversational competence (listening and speaking) and learning more Chinese characters.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 161-3 or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have completed Grade 11 Chinese, or who have prior knowledge of Chinese, or who have at least one Chinese speaking parent.

INTS 171-3 Beginning French I This introductory French language course focuses on the four basic linguistic skills of listening, speaking, reading, and writing. Practice of good pronunciation is stressed. Students learn typical daily vocabulary and are introduced to French culture through the language.

Prerequisites: This course is designed for students who have no prior knowledge of the French language. It is not open to native speakers. Permission of instructor is required for students who have completed Grade 10 French or equivalent courses.

INTS 172-3 Beginning French II INTS 172 is a continuation of INTS 171. Communitation abilities continue to be emphasized, along with application of grammatical rules in short compositions. Students acquire a deeper knowledge of the French culture.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 171-3, or obtain permission of instructor to continue. Permission of instructor is also required for students who have completed Grade 11 French, or some French immersion education.

INTS 181-3 Beginning Spanish I This introductory Spanish language course focuses on the four basic linguistic skils of listening, speaking, reading, and writing. Students are also introduced to Spanish culture through the language.

Prerequisites: This course is designed for students who have no prior knowledge of the Spanish language. It is not open to native speakers. Permission of instructor is required for students who have prior knowledge of Spanish or who have completed Grade 10 Spanish or equivalent courses.

INTS 182-3 Beginning Spanish II INTS 182 is a continuation of INTS 181. This course introduces more complex grammatical structures, along with broader vocabulary. Students also explore cultural aspects of the Spanish-speaking world.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 181-3, or obtain permission of instructor to continue. Permission of instructor is also required for students who have prior knowledge of Spanish.

INTS 200-3 Contemporary Russia This is an interdisciplinary survey of modern Russia and its peoples. The course explores the geographical, environmental, historical, social, economic, political, and cultural features of the country.

Prerequisites: None

INTS 203-3 Contemporary Japan This is an interdisciplinary survey of Japan and its people. The course explores the geographical, environmental, historical, social, economic, political, and cultural features of the country.

Prerequisites: None

INTS 204-3 Contemporary China This is an interdisciplinary survey of China and its peoples. The course explores the geographical, environmental, historical, social, economic, political, and cultural features of the country.

Prerequisites: None

INTS 207-3 Contempory Latin America This interdisciplinary survey of the Latin American region and its peoples explores the geographical, environmental, historical, social, economic, political, and cultural features of the countries that make up the region.

Prerequisites: None

INTS 210-3 Globalizations Globalization is a defining phenomenon of our time. This course is a survey of interdisciplinary perspectives on the processes, actors, and dynamics of globalization.

Prerequisites: None

INTS 220-3 Global Economic Shifts This course examines the shifting spatial dynamics of the global economy. Trends in global production, trade and investment over the past 200 years are analyzed and the reasons for these shifts discussed. Contemporary dimensions of globalization are identified with a focus on examining the rise and re-emergence of new global powers such as Brazil, Russia, India and China.

Prerequisites: None

Preclusions: ECON 120-3, ECON 220-3

INTS 221-3 Intermediate Japanese I INTS 221-3 is a continuation of INTS 122-3. This course is designed to enhance students' functional skills in the Japanese language and to deepen their knowledge of Japanese culture. Students learn to communicate and express themselves more effectively and with greater confidence on familiar topics. In addition, this course begins to emphasize writing in Japanese. Sixty additional kanji are introduced (for a cumulative total of 180).

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 122-3, or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have prior knowledge of Japanese or who have at least one Japanese speaking parent.

INTS 222-3 Intermediate Japanese II INTS 222-3 is a continuation of INTS 221-3. Students continue to acquire and deepen their understanding of Japanese language and culture through the further development of listening, speaking, and reading skills. In addition, this course continues to emphasize writing, encouraging students to develop their own style of expression. Sixty additional kanji are introduced (for a cumulative total of 240).

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 221-3 or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have completed Grade 12 Japanese or who have a least one Japanese speaking parent.

INTS 225-3 Global Environmental Challenge:

Sustainability Global environmental sustainability is one of the monumental challenges of our modern world. In this course, students tackle two central questions: What is (global-to-local) environmental sustainability? How can we achieve it? A problem-solving approach is emphasized, especially regarding the interaction between science and public policy. Sustainability issues are investigated theoretically and through specific case studies.

Prerequisites: None

Precluded: ENVS 225-3 Global Environmental Change: Science and Policy

INTS 231-3 Intermediate Russian I INTS 231-3 is a continuation of INTS 132-3. Students continue their study of grammar and improve their functional skills in listening, speaking, reading, and writing. Course exercises are designed to deepen knowledge of Russian culture.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 132-3 or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have prior knowledge of Russian.

INTS 232-3 Intermediate Russian II INTS 232-3 is a continuation of INTS 231-3. Students complete their study of Russian grammar and further develop their listening, speaking, reading, and writing abilities. In addition, they continue to pursue a deeper understanding of Russian culture.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 231-3 or obtain permission of instructor to continue. Permission of the instructor is also required for students who have prior knowledge of Russian.

INTS 240-3 Contemporary Circumpolar North This is an interdisciplinary survey of the Circumpolar North and its peoples. The course explores the geographical, environmental, historical, social, economic, political, and cultural features of the countries that make up the region.

Prerequisites: None Precluded: NORS 101-3 INTS 251-3 Intermediate International Language I The development of speaking, writing and reading abilities using modern texts.

Prerequisites: INTS 152-3 or permission of the instructor

INTS 252-3 Intermediate International Language II Continuation of INTS 251-3.

Prerequisites: INTS 251-3

INTS 261-3 Intermediate Chinese I INTS 261-3 is a continuation of INTS 162-3. This course is designed to enhance the students' linguistic skills, and to deepen their knowledge of Chinese culture. Simple Chinese proverbs are idiomatic expressions are introduced.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 162-3 or obtain permission of the instructor to continue. Permission of instructor is also required for students who have prior knowledge of Chinese or who have at least one Chinese speaking parent.

INTS 262-3 Intermediate Chinese II INTS 262-3 is a continuation of INTS 261-3. Students continue to deepen their understanding of Chinese language and culture through the further development of listening, speaking, reading, and writing skills, including short essay writing.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 261-3 or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have completed Grade 12 Chinese or who have a least one Chinese speaking parent.

INTS 271-3 Intermediate French I INTS 271-3 is a continuation of INTS 172-3. Instruction is conducted primarily in French. Students enhance their functional skills in the French language. This course is appropriate for students with prior exposure to French who want to refresh and expand their language skills. Appreciation of French culture through the language continues.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 172-3, or obtain permission of instructor to continue. Permission of instructor is required for students who have had French immersion education and those who have completed Grade 12 French.

INTS 272-3 Intermediate French II INTS 272-3 is a continuation of INTS 271-3. Students acquire the skills to express themselves in debate and discussion on a wide variety of topics and aspects of French culture. Elements of French literature are also introduced. This course is conducted in French, and is appropriate for students who have recently completed Grade 12 French. It also provides French Immersion students an opportunity to review their grammar.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 271-3, or obtain permission of instructor to continue. Permission of instructor is required for students who have had French immersion education.

INTS 281-3 Intermediate Spanish I INTS 281-3 is a continuation of INTS 182-3. This course reviews and expands on the essential points of grammar covered in the first year, while introducing new concepts that enhance the proper use of the language. Students deepen their insights into the history, culture, and literature of the Spanish world.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 182-3, or obtain permission of instructor to continue. Permission of instructor is required for students who have prior knowledge of Spanish or those who have completed Grade 11 or 12 Spanish.

INTS 282-3 Intermediate Spanish II INTS 282-3 is a continuation of INTS 281-3. Students acquire a deeper understanding of the Spanish language and culture through further development of skills in listening, speaking, reading, and writing. Students are encouraged to participate in discussions, debates, and interactive presentations to develop their communication skills.

Prerequisites: This course is not open to native speakers. Students must achieve a minimum grade of C in INTS 281-3, or obtain permission of instructor to continue. Permission of instructor is also required for students who have prior knowledge of Spanish or who have completed Grade 12 Spanish.

INTS 298-3 Special Topics in Global Studies This course is a detailed examination and analysis of contemporary issues in global studies. It is designed to address timely topics in a rapidly changing world. This course may be repeated to a maximum of 6 credit hours if the material is substantially different. To register in subsequent distinct offerings in excess of 6 credit hours, permission of the Program Chair is required.

Prerequisites: none.

INTS 300-3 International Organization How is our world organized and governed? This course is an investigation of the actors, dynamics, and processes of global governance, including the United Nations, other intergovernmental institutions, non-governmental organizations and private actors.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 301-3 International Law International law is a defining feature of our contemporary gloabl society. This course explores the nature and sources of international law and its application to the establishment of order in global society.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 302-3 Canadian Foreign Policy What is Canada's foreign policy and how is it made? This course surveys the institutions, actors, processes, and issues that determine Canadian foreign policy, including a review of the relationship of foreign policy to domestic policies.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 304-3 International Development International development is critical to global well-being but is a complex and contested process. This course examines approaches to and problems of economic, social and political development from a global perspective. The role of the state, international development institutions, and global civil society are explored.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 306-3 Human Rights "All human beings are born free and equal in dignity and rights" (Article 1 of the United Nations Universal Declaration of Human Rights, 1948). This course examines human rights issues and problems from a global perspective, including environmental, cultural, social, political, civil, and economic rights. The roles of international institutions and transnational advocacy networks in promoting and enforcing human rights are explored.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 307-3 Global Resources How do humans use the Earth's endowment of natural resources? How can we best conserve them? This course examines the interaction between the global political economy and natural resources. Debates about resource scarcity/abundance, environmental and social concerns related to production and consumption, and inter-state and intra-societial competition for access to resources are explored.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 308-3 Gender and International Studies Understanding gender is essential for understanding how our world thinks and functions. This course offers a critical analysis of the role of gender in global affairs.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 309-3 Global Science and Technology Science and technology permeate our lives, local to global. This course is an inquiry into their role in an era of globalization. The origins of science and technology and their "merger" in the late 1800s provide the foundation for an analysis of their relationship to present-day environmental, cultural, social, political, and economic issues at the international and global levels.

Prerequisites: INTS 100-3, and INTS 210-3 or permission of the instructor

INTS 310-3 Origins and Evolution of Our Globalizing World

Cultivating a sense of 'deep history' is essential to understanding our global present and global future. This course analyzes the historical origins and evolution of constituent elements of our modern world: global structures (such as the nation-state system), agents (such as multinational corporations), processes (such as war), ideas (such as liberalism), and issues (such as environmental degration). It then casts an eye to their future. The focus of the course is the dynamics of large-scale change. Also covered is the origin of the field of Global Studies.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 321-3 Japanese Conversation and Composition I INTS 321-3 is a continuation of INTS 222-3. Students begin to acquire advanced skills in listening, speaking, reading, and writing in order to communicate effectively and sensitively in a variety of social contexts. Students are expected to actively participate in discussions and interactive presentations, and to write in a variety of styles. Sixty additional kanji are introduced (for a cumulative total of 300).

Prerequisites: This course is not open to native speakers. Students must meet a minimum grade of C in INTS 222-3 or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have prior knowledge of Japanese or who have at least one Japanese speaking parent.

INTS 322-3 Japanese Conversation and Composition II INTS 322-3 is a continuation of INTS 321-3. This course is designed to further develop and reinforce the practical use of the Japanese language in different social contexts by facilitating the development of conversational fluency and various writing skills. Students learn an additional 60 kanji (for a cumulative total of 360).

Prerequisites: This course is not open to native speakers. Students must meet a minimum grade of C in INTS 321-3 or obtain permission of the instructor to continue. Permission of the instructor is also required for students who have prior knowledge of Japanese or who have a least one Japanese speaking parent.

INTS 325-3 Film and Global Society This course is an exploration of our globalizing world through the medium of film.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 340-3 The Circumpolar North in Global Perspective

Canada is part of the Circumpolar North; UNBC is a school "in the north, for the north". This course examines the North from a global perspective. The North was once considered remote and pristine. Today it is at the center of sovereignty, security, energy, development, and indigenous issues. These issues are surveyed, as are attempts to create a more integrated circumpolar society.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 360-3 Global Sports Sports have gone global. This course tell you how and why. It surveys the role of sports in mass global culture, including an examination of professional sports and mega-sporting events such as the Olympics and the FIFA World Cup.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 377-3 Redefining Security What is security? This course reviews the evolution of the notion of security from traditional definitions associated with the military and the state to more recent definitions of (human) security which include gender, economics, and the environment.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 378-3 Intelligence and Security Intelligence-gathering is a significant, and in the case of spying, covert aspect of global society. This course is a comparative analysis of the place of security and intelligence in global affairs. The role of the four major elements of intelligence (collection, counterintelligence, analysis and estimates, and covert action) are examined as are the oversight and control issues raised by these activities.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 402-3 Pacific Affairs This seminar explores contemporary issues and relations between Asia and Pacific peoples, cultures, and states.

Prerequisites: INTS 100-3, and INTS 210-3 or permission of the instructor

INTS 407-3 Global Economy and Development This course is an analysis of the evolution of the global economy, and an assessment of competing theories of the global economy. The prospects for developing countries within the global economy are examined.

Prerequisites: ECON100-3, ECON 101-3 and ECON 311-3, or permission of the instructor

INTS 410-3 Environment and Development in the Circumpolar North Examination of conservation and development issues and experiences in the northern circumpolar countries.

Prerequisites: INTS 205-3, INTS 340-3 and 60 credit hours, or permission of the instructor

INTS 430-(3-15) Study Abroad

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 440-(3-6) Internship

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

Course Descriptions: INTS

INTS 460-3 Issues in Canadian Foreign Relations This course is a detailed examination of selected problems in Canada's foreign relations.

Prerequisites: INTS 100-3 and INTS 210-3 or permission of the instructor

INTS 470-3 Global Environmental Governance This seminar analyzes the monumental challenge of globally governing the human relationship with the natural world, often referred to as global environmental governance or Earth System governance.

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor

INTS 480-3 Pacific Environment This seminar analyzes environmental and sustainability issues of the Asia and Pacific region, with particular attention to the theory and practice of international environmental cooperation.

Prerequisites: INTS 100-3, INTS 210-3, and INTS 225-3 or ENVS 225-3, or permission of the instructor

INTS 490-3 Global Capstone This course is required for all Global and International Studies majors in their final year before graduation. Students will engage in research projects that express their cumulative learning in global studies.

Prerequisites: INTS 100-3, INTS 210-3 and INTS 310-3

INTS 498-3 Special Topics in Global Studies This is a detailed examination of contemporary issues in global studies. This course may be repeated to a maximum of 6 credit hours if the material is substantially different. To register in subsequent distinct course offerings in excess of 6 credit hours, permission of the Program Chair is required.

Prerequisites: INTS 100-3, INTS 210-3, and 60 credit hours, or permission of the instructor

INTS 499-(3-6) Independent Study

Prerequisites: INTS 100-3 and INTS 210-3, or permission of the instructor and the Department Chair

Languages

International languages taught at UNBC include Chinese, French, Japanese, Russian, and Spanish. For course listings, see entries under Global and International Studies.

Mathematics (MATH)

Note that BC Introductory Mathematics 11, Applications of Mathematics 11, Essentials of Mathematics 11, Applications of Mathematics 12, and Essentials of Mathematics 12 are not considered prerequisites for any MATH courses as currently taught.

A student may enroll in any MATH course with permission of the Department Chair. Unless otherwise stated, students enrolling in any MATH courses with prerequisites are required to have completed all prerequisite courses for that course with a C- or better, or have permission to enroll from the Department Chair.

MATH 100-3 Calculus I This course is an introduction to the calculus of one variable, primarily for majors and students in the sciences. Functions of one variable, inverses, limits and limit theorems, continuity, the difference quotient and derivatives, rules for differentiation, differentiability, the mean value theorem, the differential as a linear functional, definitions and derivatives of trigonometric functions, informal definitions of logarithmic and exponential functions and their derivatives, L'Hopital's rule, higher derivatives, maxima and minima, curve sketching, Newton's method, antiderivatives, definite integrals, the fundamental theorem of calculus, integrals of elementary functions, area between curves, applications of integration, and integration by substitution are discussed. All sections of this course are taught using Maple software.

Prerequisites: Math 12 or Principles of Math 12 or Pre-calculus 12 or MATH 115-3

Precluded: MATH 105-3 or MATH 152-3

MATH 101-3 Calculus II This course provides a continuation of MATH 100. Areas of study include the definition of the natural logarithm as an integral and of the exponential function as its inverse, integration by parts, miscellaneous techniques of integration, improper integrals, volumes by slicing and by shell techniques, the trapezoidal rule and Simpson's rule, infinite sequences and series, Taylor series, masses, volumes, moments, centre of mass, first order linear differential equations, definition of partial derivatives. All sections of this course are taught using Maple software.

Prerequisites: MATH 100-3 or MATH 105-3

MATH 105-3 Enriched Calculus This course provides a rigorous introduction to the calculus of functions of one variable. Core topics covered are similar to those of MATH 100-3, except that the focus is less on the mechanics of calculus and more on the development of the ideas in calculus and of calculus as a foundation of mathematical thought. Additional special topics may be added by the instructor. Maple labs accompany this course.

Prerequisites: Math 12 or Principles of Math 12 or Pre-calculus 12 or MATH 115-3

Precluded: MATH 100-3 or MATH 152-3

MATH 115-3 Precalculus This course examines algebraic manipulation, solutions of algebraic equations, functions, inverses, graphing, and analytic geometry. It is not open to students with credit in Principles of Math 12, Precalculus 12, MATH 100, MATH 105, MATH 150, MATH 152 or equivalents, except by permission of the Chair.

Prerequisites: Principles of Math 11 minimum grade (60%) or Precalculus 11 minimum grade (60%)

MATH 150-3 Finite Mathematics for Business and

Economics This course is offered primarily for students in the School of Business and the Economics Program. It covers functions and graphs, linear systems of equations, matrix notation and properties, matrix inversion, linear programming, sets, counting and probability, and an introduction to actuarial mathematics.

This course may not be used for credit towards a major, or joint major, in Mathematics or Computer Science.

Prerequisites: Principles of Math 12 or Pre-calculus 12 or Math Foundations 12 or MATH 115-3

MATH 152-3 Calculus for Non-majors Limits, the derivative, techniques of differentiation, exponential functions and exponential growth, maxima and minima, curve sketching, first order linear differential equations, definite and indefinite integrals, partial derivatives, optimization of functions of several variables, Lagrange multipliers, with applications in the social and physical sciences. Applications may vary somewhat from section to section, depending on student's discipline. Not open to mathematics or computer science majors.

Prerequisites: Math 12 or Principles of Math 12 or Pre-calculus 12 or MATH 115-3

Precluded: MATH 100-3 or MATH 105-3

MATH 190-4 Mathematics for Elementary School

Educators This course develops an understanding of mathematical concepts and relationships used in the elementary school curriculum. The content focus is on numbers and number systems, patterns and relations, shapes and space, and statistics and probability. Problem solving and deductive reasoning are stressed throughout the course.

Prerequisites: Principles of Math 11 or Pre-calculus 11 or Foundations of Math 11

Precluded: MATH 100-3, MATH 105-3, MATH 152-3. Students who have taken MATH 100-3, MATH 105-3, MATH 152-3 or equivalent require permission of the Chair

MATH 200-3 Calculus III The final course in the calculus sequence, with an emphasis on the calculus of vector-valued functions of several variables. Vectors in two- and three-dimensional space, dot and cross products, lines and planes in space, cylindrical and spherical coordinates, curves given parametrically, surfaces and curves in space, directional derivatives, the gradient, tangent vectors and tangent planes, the chain rule, the topology of Euclidean space, optimization problems for functions of several variables, vector fields, line integrals, surface integrals, the theorems of Green, Gauss, and Stokes, potential functions, conservative fields.

Prerequisites: MATH 101-3

MATH 201-3 Introduction to Complex Analysis Complex numbers and topology of the complex plane, theory of analytic functions, precise definition of limit and continuity, harmonic functions, contour integration, Cauchy's integral theorem and integral formula, series representation for analytic functions, residue theory, the fundamental theorem of algebra.

Prerequisites: MATH 200-3

MATH 220-3 Linear Algebra This course covers systems of linear equations, matrix algebra, determinants, vector geometry, vector spaces, eigenvalues and diagonalization.

Prerequisites: Math 100-3 or MATH 105-3 or CPSC 141-3

MATH 224-3 Foundations of Modern Mathematics This course develops the essential components of Zermelo-Fraenkel set theory and from these ideas constructs the standard number systems. Topics include basic logic and methods of proof, axioms of set theory, mathematical induction, the natural numbers, the integers, and the rational, real, and complex number systems.

Prerequisites: MATH 100-3 or MATH 105-3

Recommended: MATH 101-3 Precluded: MATH 222-3

MATH 230-3 Linear Differential Equations and Boundary Value

Problems This course is an introduction to differential equations. Topics include first order differential equations (separable, exact, and linear), basic Euler and Runge-Kutta numerical methods of solution, homogeneous and nonhomogeneous linear second order equations with classical methods of solution (variation of parameters and reduction of order), linear partial differential equations with examples (heat equation, Laplace's equation, wave equation), Fourier sine and cosine series with an application to boundary value problems.

Prerequisites: MATH 200-3 Co-requisites: MATH 220-3 Precluded: MATH 332-3

MATH 302-3 Introductory Mathematical Analysis This course develops the essential components of metric space topology and the related ideas of convergence including convergence of sequences and series of functions. Topics include open, closed, bounded and compact sets in a metric space, the Bolzano-Weierstrass and Heine-Borel Theorems, continuous and uniformly continuous functions, and uniform convergence.

Prerequisites: MATH 101-3 and MATH 224-3 Strongly Recommended: MATH 201-3 Precluded: MATH 223-3 and MATH 300-3

MATH 320-3 Survey of Algebra A first course in the standard algebraic structures, their properties and applications. Equivalence relations, elementary group theory, finite groups, cyclic groups, permutation groups, group homomorphisms, products, elementary ring theory, ring homomorphisms and products, construction of new algebraic structures from known structures.

Prerequisites: MATH 220-3 Recommended: MATH 224-3 MATH 326-3 Advanced Linear Algebra Topics include abstract treatment of vector spaces, linear transformations, the Cayley-Hamilton theorem, inner product spaces, Gram-Schmidt orthogonalization, rational and Jordan canonical forms, and the spectral theorem.

Prerequisites: MATH 220-3 Precluded: MATH 226-3

MATH 335-3 Numerical Analysis I An introduction to the theory and application of numerical approximation techniques. Topics to be examined include number systems, error sources and analysis, solution of nonlinear equations, solution of systems of linear equations, interpolation and approximation, and numerical differentiation and integration. Programming exercises will be given, and there may be some use of commercial software. May be counted as a computer science course by computer science majors.

Prerequisites: MATH 101-3, MATH 220-3, CPSC 100-4 (or equivalent programming experience)

Precluded: MATH 330-3

MATH 336-3 Intermediate Differential Equations This course is a continuation of MATH 230-3 and is designed to increase the depth and breadth of students' knowledge pertaining to differential equations. Topics include existence and uniqueness theory for ordinary differential equations, series solutions of differential equations, linear system theory, phase plane analysis and stability, boundary value problems review of Fourier Series, with additional applications to boundary value problems for the Heat Equation, Wave Equation and Laplace's Equation.

Prerequisites: MATH 220-3 and MATH 230-3 Precluded: MATH 334-3

MATH 389-3 Special Topics in Mathematics The topic of this course varies depending on student interest and faculty availability. May be taken any number of times provided all topics are distinct.

Prerequisites: Permission of instructor

MATH 402-3 Topological and Normed Linear Spaces This course focuses on the properties of topological spaces and normed linear spaces, especially Banach spaces. Topics include inner product spaces, topological spaces, compact and locally compact spaces, classical Banach spaces, linear functionals and dual spaces, topological vector spaces, and Hilbert space.

Prerequisites: MATH 302-3

MATH 403-3 Measure Theory and Integration This course focuses on the development and properties of Lebesgue measure and the Lebesgue integral, with generalization to integration in abstract measurable spaces. Topics include outer measure, measurable sets and Lebesgue measure, measurable functions, differentiation of integrals, and the extension of these concepts to more general settings.

Prerequisites: MATH 302-3

MATH 405-3 Topology Open and closed sets, Hausdorff and other topologies, bases and sub-bases, continuous functions connectivity, product and quotient spaces, the Tychonoff and Urysohn lemmas, metrization, compact spaces.

Prerequisites: MATH 302-3 Precluded: MATH 321-3

MATH 409-3 Mathematical Methods in Physics This course surveys the methods and techniques involved in the formulation and solutions of physics problems. Topics include matrix algebra and group theory, eigenvalue problems, differential equations, functions of a complex variable, Green's functions, Fourier series, integral equations, calculus of variations, and tensor analysis.

Prerequisites: Permission of the instructor Precluded: PHYS 409-3

MATH 420-3 Structure of Groups and Rings Advanced course in group theory and ring theory. Homomorphism theorems for groups, rings and R-modules, Sylow theorems, short exact sequences, chain conditions.

Prerequisites: MATH 320-3

MATH 421-3 Field Theory Topics discussed will include: fields, field extensions, splitting fields, automorphism group, Galois Theory.

Prerequisites: MATH 320-3

MATH 450-3 Combinatorics This course in an introduction to combinatorics. Topics include counting principles, principle of inclusion and exclusion, generating functions, graph theory and applications, combinatorial structures, combinatorial optimization and applications.

Prerequisites: MATH 101-3, MATH 220-3 Recommended: CPSC 141-3 or MATH 224-3

MATH 455-3 Graphs and Algorithms This course is an introduction to graphs and algorithms. Topics include basic graph concepts, flows and connectivity, trees, matchings and factors, graph colouring, scheduling, planar graphs, and algorithms.

Prerequisites: MATH 224-3 or CPSC 141-3 or CPSC 142-3

MATH 460-3 Mathematics Seminar Topic will vary from year to year. Offered in a seminar format with limited enrolment. Students will complete a substantial project under the supervision of the instructor.

Prerequisites: Completed 90 credit hours and permission of the instructor

MATH 480-3 Number Theory This course is an introduction to number theory. Topics include the integers, divisibility, Euclidean algorithm, primes, unique factorization, congruences, systems of linear congruences, Euler-Fermat Theorem, multiplicative functions, quadratic residues and reciprocity, nonlinear Diophantine equations.

Prerequisites: MATH 220-3 or MATH 224-3

MATH 499-3 Special Topics in Mathematics The topic for this course will vary, depending on student interest and faculty availability. May be taken any number of times provided all topics are distinct.

Prerequisites: Permission of the instructor

MATH 530-(3,6) Undergraduate Thesis This undergraduate thesis allows students to examine and research a topic in the field of mathematics. Students must have completed at least 90 credit hours and be a Mathematics major. This thesis may be taken in one or two semesters. MATH 530 is normally taken over two semesters and requires that a student find an Undergraduate Thesis research supervisor. Therefore, students are encouraged to apply to potential supervisors well in advance of completing 90 credit hours. This course is taken for a total of 6 credit hours.

Prerequisites: Honours standing and permission of the Instructor and Department Chair Precluded: STAT 530-(3,6)

National Outdoor Leadership School (NOLS)

The National Outdoor Leadership School (NOLS) is a not for profit educational institution that offers courses in outdoor leadership and wilderness education throughout Canada and around the world. Courses with NOLS prefixes are taught through a partnership agreement with NOLS and are not physically taught at UNBC. Students need to enroll in a NOLS field-based program in order to access these courses/credits, and there are additional tuition costs for such a program. Information about NOLS courses and how to register is available from the ORTM program or from the student advisors.

NOLS 100-4 The Natural History of Regional Ecosystems This course teaches students field natural history and basic field ecology as keys to the exploration of their surroundings and in order to minimize the human effects on the ecosystems through which they travel. This is done through immersion in a wilderness setting, class work, and guided "teachable moments" that develop students' knowledge of local biota.

NOLS 300-2 Environmental Ethics, Leave No Trace and Leadership This course allows students to master "Leave No Trace" principles and develop the teaching skills necessary to pass these ethics on to others effectively. These goals are accomplished in an independent learning community immersed in a remote wilderness environment.

NOLS 301-2 Group Leadership Techniques This course enables students to learn and practice advanced levels of outdoor leadership. Areas of emphasis include high accountability standards, communications, group organization, teamwork, and expedition ethics.

NOLS 302-(2-6) Wilderness Skills Practicum This course teaches students safety and environmental care to develop competence in wilderness travel fundamentals. Students learn the skills needed to travel through the backcountry safely, in a number of different contexts (e.g., canoeing, river travel, backpacking, mountaineering).

NOLS 303-2 Risk Management, Assessment and Decision Making Students learn and practice assessing and managing risks related to weather, climate, travel, and the "human factor." Foundations for decision-making, theory, and communication are practiced. Risk assessment is evaluated on the environment in which the course is based (e.g., land, water or snow).

Natural Resources and Environmental Studies (NRES)

NRES 100-3 Communications in Natural Resources and Environmental Studies This course will provide a basic understanding of human behavioural responses as well as develop learning skills in oral and written communications. Emphasis will be on determining the nature of an audience, accessing appropriate material, report writing, oral presentation and literature relevant to natural resources and environmental disciplines.

Prerequisites: None

NRES 421-1 Professional Writing This course provides a structured environment in which students learn and apply skills in professional report writing. Topics include development of a research question or problem statement, accessing and properly citing information and references, synthesis and organization of information, report structure and formatting.

Prerequisites: At least 90 credit hours or permission of instructor

NRES 422-2 Undergraduate Report This course enables students to develop a professional report under the supervision of a faculty member. Students work independently, but are provided guidance on a one-on-one basis by the faculty member. The professional report requires definition of a problem statement or research question, and synthesis and integration of information from a multitude of sources.

Prerequisites: NRES 421-1 Professional Writing and permission of Faculty Supervisor and Program Chair Precluded: NRES 420-3 Undergraduate Report

NRES 430-6 Undergraduate Thesis An undergraduate thesis offers students substantial research experience, which may be helpful for proceeding to postgraduate studies. The course requirements include conducting supervised research, writing a thesis, and presenting the results orally. Students taking this course would normally be majoring in Biology, Environmental Studies, Natural Resources Management (Forest Ecology and Management, Outdoor Recreation and Conservation, or Wildlife and Fisheries), or Nature-Based Tourism Management. NRES 430 is normally taken over two semesters and requires that a student find an Undergraduate Thesis research supervisor. Students are encouraged to apply to potential supervisors well in advance of completing 90 credit hours.

Prerequisites: 90 credit hours and permission of an Academic Supervisor and a Program Chair

NRES 498-(3-6) Special Topics in Natural Resources and Environmental Studies This course covers selected topics related to Natural Resources and Environmental Studies. This course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Natural Resources Management (NREM)

NREM 100-3 Field Skills This course introduces contemporary and traditional field skills in the natural resources including field navigation, outdoor survival, plant and tree identification, basic natural resource measurements, use of GPS, and air photo interpretation. Extensive fieldwork is required.

Prerequisites: None

Note: Applications for exemption from NREM 100-3 must be made within the first year of study in any program that requires NREM 100-3

NREM 101-3 Introduction to Natural Resources Management and Conservation This course introduces past, present and future issues in natural resources management and conservation. Guest speakers share their professional experiences working in various fields of natural resources management. Students learn to think critically about the multidisciplinary nature of resource management and they provide solutions to complex, real-world problems.

Prerequisites: None

NREM 203-3 Resource Inventories and Measurements

This course introduces multiple resource inventories, designed to provide an understanding of how natural resources are sampled and quantified. Emphasis is placed on the measurement of forest attributes, and the analysis of forest resource data. Students learn how to make graphical and numerical summaries of their datasets and to generate descriptive statistics such as measures of central tendency and dispersion. This foundational course prepares students for future courses and careers in natural resource management, by providing them with a set of basic field skills and techniques. Field trips are required.

Prerequisites: NREM 100-3

NREM 204-3 Introduction to Wildlife and Fisheries Introduction to principles of habitat and population biology and management, and human dimensions of wildlife management. Lectures will introduce the life requisites of individual species and compare aquatic and terrestrial systems, and provide an overview of the characteristics needed to estimate parameters of fish and wildlife populations. Labs will emphasize quantification of fish and wildlife habitats.

 $\it Prerequisites: BIOL 102-4, or BIOL 104-3 and BIOL 124-1; NREM 100-3$

NREM 210-4 Integrated Resource Management An introductory course in the principles of management of forest resources including fisheries, recreation, range, and wildlife.

Prerequisites: None

NREM 303-3 Aboriginal Perspecitves on Land and Resource Management This course examines Aboriginal cultural perspectives and operational approaches to land and resource management, including existing and emerging realitities about Aboriginal rights, title and consultation.

Prerequisites: 60 credit hours

NREM 306-3 Society, Policy and Administration This course addresses social views of natural resources and the management processes by which these views and policies are developed and expressed. Social conflict and its resolution over natural resource policies are also discussed.

Prerequisites: Upper-division standing Precluded: POLS 334-3 and POLS 344-3

NREM 333-3 Field Applications in Resource Management This field-based course provides students with a practical understanding of principles of integrated resource management. The course focuses on the many values on a landbase through modularized lessons and an authentic case study approach. Meeting with various stakeholders and professionals working in the field allows students to explore relevant and contemporary issues in natural resource management.

Prerequisites: Permission of the instructor

NREM 400-4 Natural Resources Planning This course focuses on the development and application of planning frameworks, government policy, and legislation from the perspective of natural resources management in British Columbia and Canada. Students are exposed to contemporary approaches for natural resources planning, the history and current application of policy and legislation in BC, and a variety of tools for engaging the public and stakeholders.

Prerequisites: 90 credit hours or permission of the instructor

NREM 410-3 Watershed Management Principles and practices of forest management for protection, maintenance and improvement of water resource values. Effects of land management on quality, quantity and timing of water flow. Field trips required.

Prerequisites: GEOG 210-3

NREM 411-3 Environmental and Professional Ethics Analysis of environmental and natural resource issues from an ethical perspective; viewpoints and value systems that determine management decisions.

Prerequisites: 90 credits required Precluded: ENVS 414-3

NREM 413-3 Agroforestry This course introduces students to agroforestry concepts, strategies and practices (systems). Discussions include ecological, economic, and social circumstances under which a landowner lives and makes decisions about whether or not to practice agroforestry. Both temperate and tropical approaches to agroforesty systems are addressed in the course. Special attention is given to agroforestry research and development in British Columbia.

Prerequisites: Upper-division standing (more than 60 credit hours)

Northern Studies (NORS)

NORS 101-3 Introduction to the Circumpolar North This course is an introduction to the physical, biological and human environments of the Arctic and Subarctic regions, and their interactions and relations to the global system. It provides an overview of northern environments, cultures, historical and economic development processes, political systems, and international cooperation.

Prerequisites: None

NORS 311-3 Lands and Environments of the Circumpolar

North 1 This course provides an in-depth understanding of the lands and environments that define the circumpolar north, and the key issues arising from the relationships of humans and the environment.

Prerequisites: NORS 101-3 or permission of the instructor *Precluded:* ENVS 311-3 (UNBC) or ENPL 311-3

NORS 312-3 Lands and Environments of the Circumpolar

North 2 This course provides an in-depth understanding of the lands and environments that define the circumpolar north, and its physical, biological and ecological processes.

Prerequisites: NORS 101-3; 60 credit hours or permission of the instructor

Precluded: ENSC 308-3 (UNBC) or ENVS 308-3 (UNBC)

NORS 321-3 Peoples and Cultures of the Circumpolar

World 1 This course provides an introduction to the traditional and contemporary peoples and cultures of the circumpolar north, with interdisciplinary exposure to anthropology, sociology, history, cultural studies, and literature.

Prerequisites: NORS 101-3;60 credit hours; or permission of the instructor

Precluded: ANTH 305-3

NORS 322-3 Peoples and Cultures of the Circumpolar

World 2 This is an interdisciplinary course looking at the relationships among primary, secondary and tertiary societies in the circumpolar north, as well as cultural change, Indigenous peoples' movements and international/intercultural cooperation and communications.

Prerequisites: NORS 321-3; and upper-division standing Precluded: ANTH 404-3

NORS 331-3 Contemporary Issues of the Circumpolar

North 1 This course is an introduction to the important structures and forces affecting the sustainability of circumpolar communities, including population trends, natural resource use and economic development

Prerequisites: NORS 101-3; 60 credit hours; or permission of the instructor

Precluded: INTS 340-3

NORS 332-3 Contemporary Issues of the Circumpolar

North 2 This course deals with questions relating to governance and politics, social issues, education and knowledge systems, and global issues in the circumpolar north.

Prerequisites: NORS 101-3; 60 credit hours; or permission of the

instructor

Precluded: POLS 315-3

NORS 498-3 Special Topics in Northern Studies This is a special topics course in northern studies as selected by an instructor.

Prerequisites: NORS 101-3 and upper-division standing

NORS 499-(3-6) Independent Research/Directed Reading in Northern Studies This course involves a concentration on a particular topic as agreed upon by a member of the faculty and a student.

Prerequisites: NORS 101-3 and upper-division standing

Nursing (NURS)

NURS 101-3 The Art and Science of Nursing This course introduces the beginning student to the dimensions of nursing practice and to individuals accessing health care. Through group and individual learning activities the student is introduced to concepts, practices, issues and trends in nursing and health care. Observational experience with a health care practitioner is incorporated.

Major Restriction: Restricted to students in the NCBNP

NURS 102-3 Communication Theory and Practice This course introduces the student to communication theory and concepts. The student has the opportunity to increase awareness of self and to explore perceptions, culture, language and non-verbal messages. Opportunities exist for the development of communication skills.

Major Restriction: Restricted to students in the NCBNP

NURS 201-4 Introduction to Health Assessment This course provides the basis to gather a health history and to assess the functioning of individuals through the proper use of physical examination techniques. Psychosocial and cultural assessment is included. The emphasis is on recognition and identification of normal findings.

Prerequisites: all 100 level nursing courses; HHSC 111-4 and HHSC 112-4, or BIO 111-3 and BIO 112-3 at CNC, or BIOL 131-3 and BIOL 132-3 at NWCC, or equivalent

Major Restriction: Restricted to students in the NCBNP

NURS 202-3 Pathophysiological Concepts This course uses a conceptual approach to examine pathological mechanisms of altered states in human physiology. Topics include the etiology, cellular metabolism, tissue alterations, functional changes, and age-related differences involved in each process.

Prerequisites: HHSC 111-4, HHSC 112-4 and HHSC 110-3, or BIO 111-3 and BIO 112-3 and BIO 105-3 at CNC, or BIOL 131-3, BIOL 132-3, and BIOL 133-3 at NWCC, or equivalent Major Restriction: Restricted to students in the NCBNP Precluded: NURS 301-3. HHSC 301-3

NURS 203-3 Health Promotion in Families This course introduces theory related to families across the lifespan within the context of primary health care in the north. Emphasis is on family assessment skills and working in partnership with families in the development of health promotion and illness and injury prevention strategies. Holistic care of families during transitions such as normal childbearing, child rearing, and caring for an elderly parent is included.

Pre- or Co-requisites: NURS 101-3, NURS 102-3
Major Restriction: Restricted to students in the NCBNP

NURS 204-3 Healing Modalities This course provides an overview of healing modalities currently used by nurses and other experts in practice in British Columbia. Principles of pharmacology and pharmacodynamics are addressed. Opportunity is provided for students to explore various complementary healing techniques.

Pre- or Co-requisites: HHSC 111-4 and HHSC 112-4, or BIO 111-3 and BIO 112-3 at CNC, or BIOL 131-3 and BIOL 132-3 at NWCC, or equivalent

Major Restriction: Restricted to students in the NCBNP

NURS 205-3 Introduction to First Nations Health This course provides an overview of First Nations health, factors influencing health status, and issues arising from northern and remote living. Historical events and their impact on health are introduced. Current barriers to health, along with culturally sensitive nursing implications, are explored.

Pre- or Co-requisites: ANTH 213-3 or equivalent. Admission for nonnursing students by permission of the instructor *Precluded:* FNST 302-3

NURS 206-3 Basic Nutrition This course examines the nutritional needs of specific client groups throughout the lifespan and in various states of wellness and illness. The course reviews the physiology of carbohydrate, fat, protein, and energy metabolism. Topics include enteral and parenteral nutrition, trends and issues in nutritional practice, and the psychosocial and cultural aspects of food and eating behaviours.

Major Restriction: Restricted to students in the NCBNP *Precluded:* NURS 303-3, ANTH 311-3, HHSC 311-3

NURS 215-8 Nursing Care of the Adult This course examines principles and practices of nursing adults with health problems. The focus is on the acquisition and application of knowledge in planning, implementing and evaluating the nursing care of clients requiring medical and surgical intervention. Holistic health care of individuals is highlighted. The course includes laboratory instruction in psychomotor skills. The clinical practicum enables the student to integrate theory and skills needed to provide nursing care.

Prerequisites: NURS 101-3, NURS 102-3; HHSC 111-4, HHSC 112-4 and HHSC 110-3, or BIO 111-3 and BIO 112-3 and BIO 105-3 at CNC, or BIOL 131-3, BIOL 132-3, and BIOL 133-3 at NWCC, or equivalent

Co-requisites: NURS 201-4, NURS 202-3

Major Restriction: Restricted to students in the NCBNP

Precluded: NURS 210-3, NURS 211-5

NURS 220-5 Extended Clinical Practicum I This practicum provides the opportunity for consolidated clinical nursing practice with adults who have health problems. This course builds on previous clinical practice with the adult and occurs in various settings in northern BC.

Prerequisites: All required 100 and 200 level NURS and HHSC courses (or equivalent) in the NCBNP

Major Restriction: Restricted to students in the NCBNP

NURS 301-3 Advanced Pathophysiology This course discusses the pathogenesis and pathophysiological mechanisms of select diseases and conditions, with an emphasis upon recent discoveries in genetics, immunology, and infection and includes conditions relevant to northern BC. Linkages between pathophysiological events and therapeutic modalities are made. This course presumes an understanding of anatomy, physiology, and basic pathophysiology.

Prerequisites: None; admission for non-nursing students by permission of the instructor

Precluded: NURS 202-3, HHSC 301-3

NURS 303-3 Nutrition This course reviews nutrient requirements across the life span and physiological connections of diet to health and disease. Therapeutic aspects of parenteral nutrition (total and peripheral) and special diets in disease states are covered.

Prerequisites: None; admission for non-nursing students by permission of the instructor

Precluded: NURS 206-3, ANTH 311-3, HHSC 311-3

NURS 304-3 Introduction to Nursing Knowledge This course provides an overview of the types of knowledge or theory in the profession, and how such knowledge is developed. It encourages a critical analysis of trends in knowledge development and highlights the crucial relationship of knowledge to practice.

Prerequisites: NURS 220-5, or enrolment in the Post-Diploma BScN, or permission of the Chair, School of Nursing

NURS 306-3 Introduction to Epidemiology This course applies epidemiological principles in the examination of patterns of disease and disability among populations, particularly those in northern latitudes. It introduces students to the interpretation of vital statistics, the critique of cross-sectional, case-control and cohort design, and the principles of screening.

Prerequisites: NURS 220-5, or enrolment in the Post-Diploma BScN, or permission of the Chair, School of Nursing Precluded: HHSC 350-3

NURS 308-3 Ethics and Law in Nursing This course examines ethical reasoning and the use of ethical theory in nursing practice decisions. Health care law as it relates to nursing practice is explored. Special focus is on the meaning and use of nursing practice acts, professional standards of practice and nursing codes of ethics.

Prerequisites: NURS 220-5, or permission of the Chair, School of Nursing

Precluded: HHSC 201-3

NURS 317-5.5 Nursing Theory and Practice: Maternity This course takes a women- and family-centred, strengths-based approach to caring for individuals and families of diverse and multicultural backgrounds in the childbearing experience. Emphasis is placed on the integration and application of evidence-based theory, standards for nursing practice, effective communication, critical thinking and use of the nursing process to optimally prepare nurses as caregivers and collaborators with childbearing women, neonates, families, and the health care team.

Prerequisites: NURS 220-5, or permission of the Chair, School of Nursing

Precluded: NURS 310-3, NURS 311-5, NURS 321-2.5

NURS 318-5.5 Nursing Theory and Practice: Pediatrics This course emphasizes the health of infants, children, and their families, with a focus on health promotion, risk reduction, disease prevention and common health problems. Particular attention is on northern populations and First Nations groups. Information and clinical practice relating to acute and chronic conditions and medical/surgical interventions are included. The impacts of illness, disability and medical/surgical care on the child and family unit are explored. Concepts of health promotion, effects of genetics and environment on child health and the influence of social determinants of health are introduced. Clinical experiences occur in acute pediatric and selected community settings, providing opportunities to apply pediatric nursing knowledge.

Prerequisites: NURS 220-5, or permission of the Chair, School of Nursing

Precluded: NURS 310-3, NURS 311-5, NURS 322-2.5

NURS 323-5.5 Nursing Theory and Practice: Older Adult This course focuses on health-promoting, person-centred nursing practice with older persons in rural communities. Assessment focuses on the physical and mental health of older persons within the context of their everyday experience and their families and/or cultures. Particular attention is paid to the strengths of the individual as well as the presenting health challenges. Students explore strategies to prevent and/or address common health issues experienced by older persons. In addition, students have an opportunity to extend knowledge, skills and the application of therapeutic approaches with this population in the community and clinical settings.

Prerequisites: NURS 220-5, or permission of the Chair, School of Nursing

Precluded: NURS 313-3, NURS 314-5, NURS 316-2.5, NURS 453-3, NURS 653-3

NURS 326-5.5 Nursing Theory and Practice: Mental Health This course provides knowledge and skills required to care for people living with common mental health and addiction issues encountered in rural nursing practice. A holistic relational nursing focus allows students to apply concepts to a variety of health challenges and to intervene appropriately. Nursing approaches to clinical decision-making with clients who have specific mental health problems such as psychotic, mood, anxiety and personality disorders are highlighted. Nursing practice approaches to addictions, substance use, and crisis intervention, including aggression and suicide attempts, are addressed. Students have opportunity to further develop mental health nursing knowledge and skills in the clinical setting.

Prerequisites: NURS 220-5, or permission of the Chair, School of Nursing

Precluded: NURS 312-3, NURS 314-5, NURS 315-2.5, NURS 456-3, NURS 656-3

NURS 329-1 Third-Year Objective Structured Clinical

Examination This course requires students to successfully complete a number of Objective Structured Clinical Examination (OSCE) scenarios as a prerequisite to commencing NURS 330-4 Extended Clinical Practicum II. An OSCE is a method of evaluation used to measure whether specific practice performance expectations are met, and to evaluate students' clinical judgment and integration of theory and practice in standardized situations of simulated patient care. Thirty-six hours of structured nursing laboratory practice must be successfully completed no more than eight months before the student undertakes the OSCE. Lab hours must be approved by a lab instructor.

Prerequisites: All required 300-level Nursing courses in the NCBNP

NURS 330-4 Extended Clinical Practicum II This course provides the opportunity for consolidated clinical nursing practice with clients who have multiple health care needs. Previous clinical practice experience is considered when determining placement. The practicum occurs in various health care settings in northern BC. Thirty-six hours of structured nursing laboratory practice and NURS 329-1 must be successfully completed no more than eight months before the student undertakes NURS 330-4. Lab hours must be approved by a lab instructor.

Prerequisites: NURS 329-1 Precluded: NURS 320-5

NURS 402-3 Health Promotion This course examines health promotion theories, principles, and underlying philosophies within a primary health care framework. Students identify and critique health promotion issues and explore strategies that promote well-being among individuals, groups, and communities.

Prerequisites: Upper-division standing in Nursing, or permission of the instructor

Precluded: HHSC 473-3

NURS 403-3 Introduction to Nursing Research This course covers the empirical approach to the development of nursing knowledge and reviews aspects of quantitative and qualitative methods.

Prerequisites: NURS 304-3, STAT 240-3 or ECON 205-3, or permission of the Chair, School of Nursing

NURS 408-3 Nursing Leadership This course discusses nursing as a profession within the health care delivery system. Theory regarding organizational structure, leadership, change, power, accountability and decision-making processes is included and is related to a specific clinical setting.

Prerequisites: NURS 330-4, or permission of the Chair, School of Nursing

NURS 409-3 Pharmacotherapeutics for Nurses This course examines the clinical application of drug therapy, with an emphasis on drugs commonly used in primary care settings. Implications of selected pharmacotherapeutics for patients and professional nurses are analyzed. Emphasis is on clinical decision-making for nurses working in rural or northern settings.

Prerequisites: Upper-division standing In Nursing, or permission of the instructor

NURS 411-3 Medical Diagnostics for Nurses This course considers information, interpretation and implications of commonly ordered diagnostic tests. Aspects of specimen collection and test performance are covered. Areas of study include serum chemistry, hematology, microbiology, radiological imaging, and electrography. Emphasis is upon problem-solving and decision-making for nurses in acute care settings and in remote and rural areas.

Prerequisites: Upper-division standing in Nursing, or permission of the instructor

NURS 412-3 Women and Health This course examines health issues of northern women within a holistic perspective. Students will explore general and specific health concerns of women using research literature, including epidemiology.

Prerequisites: Upper-division standing in Nursing, or permission of the instructor

Precluded: NURS 612-3

NURS 415-3 Introduction to Community Health and Nursing

This course provides an introduction to the concepts of community and nursing in the community and builds upon previous experiences in community health nursing practice. Nursing theory and practice of working with individuals, families, and population groups in health and in illness are addressed. The trend to more community care in British Columbia is explored.

Prerequisites: NURS 304-3, NURS 306-3

Major Restriction: Restricted to Post-Diploma BScN students, or

permission of the Chair, School of Nursing

Precluded: NURS 418-7

NURS 418-7 Introduction to Community Health and

Nursing This course provides an introduction to the concepts of community, primary health care, and nursing in the community and builds upon previous experiences in community health nursing practice. The theory and practice of working as a nurse in the community with individuals, families, and population groups are addressed through the integration and application of community nursing and primary health care theory in nursing practice in northern communities.

Prerequisites: NURS 330-4, or permission of the Chair, School of Nursing

Precluded: NURS 415-3, NURS 416-4

NURS 420-(6, 8) Community Health Nursing This course provides the opportunity for students to increase their understanding of the theories, roles and practices required for community health nursing in changing primary health care systems in northern and rural settings. Emphasis is placed on a population- and community-focused approach to nursing care, including the promotion of health and prevention of disease and disability. During an extended clinical practicum, students integrate theoretical understandings and evidence into contributing to services and programs in the community. Emphasis is on the nurse as a partner with the community. The NCBNP requires the 8 credit hour course, and Post-Diploma BScN students complete the 6 credit hour course.

Prerequisites: NURS 418-7, or permission of the Chair, School of Nursing for 8 credit hour course Major Restriction: Post-Diploma BScN students, or permission of the Chair, School of Nursing for 6 credit hour course

Precluded: NURS 440-(3, 5, 8)

NURS 422-(6, 8) First Nations Health and Nursing This course provides the opportunity for students to increase their understanding of the theories, roles and practices required by nurses in First Nations communities. Included are the theoretical and practical exploration of the impact of colonization on health, effects of rapid cultural changes, nursing management of specific health issues, culturally sensitive approaches to nursing care, the health transfer process, and special topics related to health. During an extended clinical practicum, students integrate theoretical understandings and evidence in contributing to services and programs in First Nations communities, or in agencies that primarily serve First Nations clients. The NCBNP requires the 8 credit hour course, and Post-Diploma BScN students complete the 6 credit hour course.

Prerequisites: NURS 418-7, or permission of the Chair, School of Nursing for 8 credit hour course

Major Restriction: Post-Diploma BScN students, or permission of the Chair, School of Nursing for 6 credit hour course Precluded: NURS 441-(3, 5, 8), NURS 457-3 NURS 426-(6, 8) Acute Care Nursing This course examines the knowledge, skills and attitudes required to provide holistic, personcentred care in the acute setting. This course explores the concepts and practices of acute care nursing with various client populations while enabling students to consolidate and extend their knowledge and clinical ability in the acute care setting. Problem solving, complex client situations and expanding the professional role of the nurse are central themes of the course. The NCBNP requires the 8 credit hour course, and Post-Diploma BScN students complete the 6 credit hour course.

 $\it Prerequisites$: NURS 330-4, or permission of the Chair, School of Nursing for 8 credit hour course

Major Restriction: Post-Diploma BScN students, or permission of the Chair, School of Nursing for 6 credit hour course *Precluded:* NURS 443-(3, 5, 8)

NURS 428-6 Nursing Management This course examines nursing management and leadership theory, current issues and practice in hospitals, health care agencies and communities. Special focus is on front-line nursing management within rural and northern communities in a changing health care system. This course permits the extension of skills and knowledge in the practice of nursing leadership and management.

Prerequisites: NURS 304-3, NURS 306-3

Major Restriction: Restricted to Post-Diploma BScN students, or

permission of the Chair, School of Nursing

Precluded: NURS 429-3

NURS 430-6 Community Continuing Care Nursing This course explores the role, responsibilities and practices of nursing with a broad range of clients in home settings or long-term care facilities. A multidisciplinary team approach is emphasized. This course enables students to apply concepts and acquire skills of community continuing care professional nursing practice. Students provide direct care in the home setting, develop their clinical judgment, and contribute to decision-making and referral.

Prerequisites: NURS 304-3, NURS 306-3

Major Restriction: Restricted to Post-Diploma BScN students, or

permission of the Chair, School of Nursing

Precluded: NURS 431-3

NURS 432-(6, 8) Mental Health Nursing This course provides the opportunity for students to increase understandings of mental health and mental illness and to integrate and apply relevant theoretical and clinical knowledge. Northern practice, cultural contexts, concepts of client, and treatment settings are examined using mental health nursing frameworks. Utilizing both classroom seminars and clinical practice, students apply theoretical understandings and evidence to practice, considering various clinical settings. The NCBNP requires the 8 credit hour course, and Post-Diploma BScN students complete the 6 credit hour course.

Prerequisites: NURS 330-4, or permission of the Chair, School of Nursing for 8 credit hour course

Major Restriction: Post-Diploma BScN students, or permission of the Chair, School of Nursing for 6 credit hour course

Precluded: NURS 444-(3, 5, 8)

NURS 435-(6, 8) Pediatric Nursing This course examines the theory and practice of pediatric nursing in depth, with particular attention to northern nursing practice. Ethical and cultural issues are explored and the impact of social determinants of health on child health and development are addressed. The concept of primary care is introduced. The NCBNP requires the 8 credit hour course, and Post-Diploma BScN students complete the 6 credit hour course.

Prerequisites: NURS 330-4, or permission of the Chair, School of Nursing for 8 credit hour course

Major Restriction: Post-Diploma BScN students or permission of the Chair, School of Nursing for 6 credit hour course Precluded: NURS 434-3, NURS 445-(3, 5, 8)

NURS 451-3 Health Assessment and RN First Call This course provides students with the knowledge and skills needed to extend their ability to conduct a thorough health assessment for diverse client populations throughout the lifespan. It prepares students to safely utilize the CRNBC Decision Support Tools for RN First Call practice. Students conduct age-appropriate comprehensive health histories and physical examinations, identify health concerns and risks, taking into account culture, ethnicity and health beliefs, and make informed clinical judgments. This course features one or more mandatory extended skills-building laboratory/workshop sessions that include evaluation of history and physical assessment skills as well as utilization of the RN First Call Decision Support Tools. Upon successful completion students may apply for CRNBC RN First Call Practice Certification.

Major Restriction: Rural Nursing Certificate Program or Post-Diploma BScN students, or permission of the Chair, School of Nursing Precluded: NURS 461-8

NURS 452-6 Chronic Disease Management, Palliative Care and Wound Care This course has three components. The Chronic Disease Management component utilizes current, evidence-based knowledge, skills and management tools to provide effective client-centred care for those with chronic health challenges in rural practice. The Palliative Care component enables the learners to extend their knowledge surrounding palliative care guidelines and discusses grief and bereavement issues. The Wound Care component examines evidence-based and cost-effective wound care for people residing in rural settings.

Prerequisites: NURS 330-4, or Rural Nursing Certificate Program or Post-Diploma BScN students, or permission of the Chair, School of Nursing

Precluded: NURS 652-6

NURS 453-3 Nursing Practice with Older Persons This course focuses on health-promoting, person-centred practice for nurses working with older persons in rural communities. Assessment focuses on the physical and mental health of older persons within the context of their everyday experience and their families and/or cultures. Particular attention is paid to the strengths of the individual as well as the presenting health challenges. Nurses explore strategies to prevent and/or address common health issues experienced by older persons.

Major Restriction: Rural Nursing Certificate Program or Post-Diploma BScN students, or permission of the Chair, School of Nursing Precluded: NURS 323-5.5, NURS 653-3 NURS 454-(6, 8) Perinatal Care This course spans the antenatal, intrapartum and post-partum continuum focusing on the perinatal skills and competencies required for nurses to support women and their families through low-risk, normal pregnancies. Students learn to recognize and take action in abnormal situations and make sound, informed clinical judgments in emergency situations in rural settings. This course involves a workshop and practicum, which are both mandatory. Prior to the practicum, RNCP and Post-Diploma students must provide proof of certification in the Neonatal Resuscitation Program (NRP) and the Fetal Health Surveillance course (FHS). The NCBNP requires the 8 credit hour course. RNCP and Post-Diploma BScN students complete the 6 credit hour course.

Prerequisites: NURS 330-4, or permission of the Chair, School of Nursing for 8 credit hour course

Major Restriction: Rural Nursing Certificate Program or Post-Diploma BScN students, or permission of the Chair, School of Nursing for 6 credit hour course

Precluded: NURS 434-3, NURS 445-(3, 5, 8)

NURS 455-(6, 8) Foundations in Emergency and Trauma

Nursing This course provides students with the practical evidence-based information, skills and tools necessary to identify clients with critical conditions and to intervene appropriately and effectively within the context and confines of rural nursing practice. The most salient aspects of adult, geriatric and pediatric emergency and trauma encountered in rural practice are examined. The course includes a focused lab experience and a practicum, which are both mandatory. The NCBNP requires the 8-credit-hour course. RNCP and Post-Diploma BScN students complete the 6-credit-hour course.

Prerequisites: NURS 330-4, or permission of the Chair, School of Nursing for 8 credit hour course

Major Restriction: Rural Nursing Certificate Program or Post-Diploma BScN students, or permission of the Chair, School of Nursing for 6 credit hour course

Recommended: NURS 451-3 Precluded: NURS 417-4

NURS 456-3 Mental Health and Addictions This course provides knowledge and skills required to care for people living with common mental health and addiction issues encountered in rural nursing practice. A holistic relational nursing focus allows students to apply concepts to a variety of health challenges and to intervene appropriately. Nursing approaches to clinical decision-making with clients who have specific mental health problems such as psychotic, mood, anxiety and personality disorders are highlighted. Nursing practice approaches to addictions, substance use, and crisis intervention, including aggression and suicide attempts, are addressed.

Major Restriction: Rural Nursing Certificate Program or Post-Diploma BScN students, or permission of the Chair, School of Nursing Precluded: NURS 326-5.5, NURS 656-3

Course Descriptions: NURS

NURS 457-3 Living and Working in a Rural Community This course enables students to gain an understanding and appreciation of the unique challenges facing nurses who live and work in rural communities. Confidentiality, anonymity, cultural safety, interprofessional relationships, population health, and maintaining competence are addressed. Students gain greater knowledge and sensitivity in the provision of ethical and effective health care for First Nations populations.

Prerequisites: NURS 330-4, or Rural Nursing Certificate Program or Post-Diploma BScN students, or permission of the Chair, School of Nursing

Precluded: NURS 422-(6,8)

NURS 458-6 Remote Nursing Certified Practice This course focuses on Remote Nursing Certified Practice competencies. Key content areas include history and physical assessment, advanced clinical reasoning, informed judgment and pharmacotherapeutics for the management of specified common and predictable health conditions. Dispensary management and medication dispensing functions are also included. Content and course evaluation are based on a body-systems approach and incorporate the CRNBC Decision Support Tools for Remote Nursing Certified Practice. A mandatory extended workshop focusing on nursing practice in remote communities is included. Upon successful completion students may apply for Remote Nursing Practice Certification through CRNBC.

Major Restriction: Restricted to the Rural Nursing Certificate Program or Post-Diploma BScN students only, and by permission of the Chair, School of Nursing

NURS 461-8 Rural Health and Nursing This course prepares students with a focus in rural health and nursing. It provides students with the knowledge and skills to extend their ability to conduct a thorough health assessment for diverse client populations throughout the lifespan. It prepares students to safely utilize the CRNBC Decision Support Tools for RN First Call practice. Students conduct ageappropriate comprehensive health histories and physical examinations, identify health concerns and risks, taking into account culture. ethnicity and health beliefs, and make informed clinical judgments. This course features one or more extended skills-building laboratory/ workshop sessions that include evaluation of history and physical assessment skills as well as utilization of the RN First Call Decision Support Tools. Through clinical practicum experiences in rural acute care and primary health care facilities, students integrate and apply knowledge and skills in rural nursing. Upon successful completion students may apply for CRNBC RN First Call Practice Certification.

Prerequisites: NURS 330-4, or permission of the Chair, School of Nursing

Precluded: NURS 424-3, NURS 451-3, NURS 442-(3, 5, 8)

NURS 497-(6, 8) Specialty Focus in Nursing This course comprises both theory and clinical practicum experience in a particular specialty area of nursing practice. The specialty area varies depending on the students' interests and the opportunities for specialty education available.

Prerequisites: NURS 330-4, and permission of the Chair, School of Nursing for 8 credit hour course

Major Restriction: Post-Diploma BScN students, and permission of the Chair, School of Nursing for 6 credit hour course

NURS 498-(1-6) Special Topics in Nursing This course explores a special topic in nursing. The topic varies, depending on student interest and faculty availability. No more than 6 credit hours in Special Topics courses may be applied towards a BScN degree.

Prerequisites: Upper-division standing in Nursing, permission of the instructor, and permission of the Chair, School of Nursing

NURS 499-(1-6) Independent Study in Nursing This course explores a selected topic in nursing based on readings and learning experiences directed by an instructor. The course format and requirements are based on a formal contract with the instructor. No more than 6 credit hours in Independent Study courses may be applied towards a BScN degree.

Prerequisites: Upper-division standing in Nursing, permission of the instructor, and permission of the Chair, School of Nursing

Outdoor Recreation and Tourism Management (ORTM)

ORTM 100-3 Foundations of Outdoor Recreation and

Tourism This course introduces the foundations of outdoor recreation and tourism from the perspective of both the natural and social sciences. Content includes the history and philosophy of the concept of leisure, the role of leisure, recreation and tourism in students' lives and Western culture, outdoor recreation and tourism in integrated resource management, and current delivery systems.

Precluded: RRT 201-3 or RRT 203-3

ORTM 200-3 Sustainable Outdoor Recreation and Tourism This course focuses on resource policy and planning for recreation and tourism as part of a sustainable resource management strategy. The course examines the management of the supply side aspects of sustainable resource management from agriculture to forestry to understand how to plan and manage for recreation and tourism. A broad array of sustainable recreation and tourism policies and planning tools in different political, geographical and economic contexts is reviewed, including the relationship of recreation and tourism to integrated land use planning and design.

ORTM 202-3 Ecotourism and Adventure Tourism This course provides students with an understanding of ecotourism and adventure tourism along with other related types of tourism (e.g., nature-based, alternative, green tourism). The course covers the history and origins of ecotourism and adventure tourism; definitional debates surrounding the terms; principles of ecotourism; the application of ecotourism and adventure tourism in Northern BC, Canada and the world; and planning and management aspects of ecotourism and adventure tourism.

Precluded: RRT 404-3

ORTM 205-3 Outdoor Skills and Leadership This course focuses on the development of outdoor skills and leadership used in providing travel and recreation experiences in natural settings. Students develop skills in planning and managing outdoor activities. Typical topics include communcation, risk management, group dynamics, coaching, leadership styles, and environmental ethics. Students are expected to come with basic personal equipment and outdoor clothing suitable to the season.

ORTM 298-(1-6) Special Topics This is a special topics course offered to lower-division students. The course may not be offered every year, and may be repeated to a maximum of 6 credit hours.

ORTM 300-3 Recreation and Tourism Impacts This course reviews the identification, monitoring and mitigation of ecological, economic and socio-cultural impacts of outdoor recreation and tourism activities. Through labs, fieldwork and analysis of the literature, students examine the origin and management of impacts of resource-based recreation and tourism.

Prerequisites: BIOL 110-3 or BIOL 201-3

Precluded: RRT 413-3

ORTM 305-3 Protected Area Planning and Management This course examines historical, social, cultural, and ecological considerations in the establishment, planning and management of protected areas. The focus of the course is generally on Canadian parks, though international examples are also included. Emphasis is placed on the historic and contemporary cultural roles of protected areas, understanding park legislation and policies, natural resource management issues, and current issues and trends facing contemporary protected areas.

Prerequisites: Any 200 level ORTM course Precluded: RRT 406-3

ORTM 306-3 Indigenous Tourism and Recreation This course focuses on issues relating to indigenous perspectives on tourism and recreation, including indigenous tourism, cultural tourism and recreation, co-management of protected areas and conservation and tourism development opportunities in indigenous territories. Examples from northern British Columbia and other parts of the world are used.

Prerequisites: Any 200 level ORTM course or FNST 100-3 Precluded: RRT 498-3 (2005) Aboriginal and Cultural Tourism

ORTM 310-3 Research Methods and Analysis This course examines contemporary research approaches and methods using a variety of examples from the natural and social sciences focusing on outdoor recreation and tourism. Topics include the research process and quantitative and qualitative approaches to research. The class incorporates an applied project or projects for which data will be collected and analyszed in a mix of lab and lecture formats.

Prerequisites: ECON 205-3 or STAT 240-3 or permission of the instructor

Precluded: ORTM 410-3

ORTM 332-3 Outdoor, Environmental, and Experiential

Education This course explores the historical, theoretical, and practical foundations of outdoor, environmental, and experiential education. It focuses on conventional and innovative applications and models of these techniques and philosophies for personal, social, and environmental learning.

Prerequisites: Upper-division standing

ORTM 333-3 Field School This is an experiential course designed to enable ORTM students to focus on theoretical and practical skills involved in the field. Each field experience is designed to incorporate the theories, models and other concepts introduced in the classroom and bring them into greater clarity by examining them in a real world setting. The course integrates outdoor recreation and tourism perspectives. This field course applies principles of integrated resource management. This course may be repeated with the permission of the instructor if the subject matter and course location differ substantially Note: ORTM 333 is typically a spring/summer course and therefore the ORTM Program encourages students to take this course in their 2nd or 3rd year, prior to the fall semester of their 4th year. If a student chooses to take ORTM 333 in the spring of their 4th year there is no quarantee they will be able to graduate in May of that year.

Prerequisites: Permission of the instructor

ORTM 400-3 Conservation Area Design and Management This course focuses on the theories, processes and techniques involved in ecological management and design of conservation and protected areas. Students develop skills in community-based involvement in conservation area design, GIS approaches and techniques for analysis, the concept of naturalness, capacity and suitability of the natural resource base for tourism and recreation. Policies, procedures and practices to protect and manage recreation and tourism resources within an integrated management context are discussed.

Prerequisites: BIOL 110-3 or BIOL 201-3, and 60 credit hours

ORTM 403-3 International Dimensions of Outdoor Recreation and Tourism The course discusses global dimensions and forces in outdoor recreation and tourism, particularly those in developing nations. Typical topics include the role of the United Nations in protected area planning and management, poverty and protected areas, the effects of globalization on ORTM, the impact of the concepts of sustainable development, and biodiversity in ORTM, the risk society, the changing role of local communities in conservation, sex tourism, and enforcement issues in the developing world.

Prerequisites: ORTM 300-3 or any 300 level INTS course Precluded: ORTM 498-3 (2005-2007) International Dimensions of ORTM

ORTM 407-3 Recreation, Tourism and Communities This course assesses the relationship between tourism and recreation and local communities as well as collaborative techniques for involving communities in tourism consultation processes. It covers topics such as the concepts of communities and stakeholders, hosts and guests, the relationship between community involvement and tourism, community attitudes towards tourism development and emerging approaches towards collaboration and partnerships.

Prerequisites: Any 300 level ORTM courses or any 200 level ENPL course

Precluded: ORTM 498-3 (2005-2007) Recreation, Tourism and Communities

ORTM 408-3 The Psychology of Recreation and

Tourism Examines individual and social factors that shape personal perception, experience and behaviours in a recreation and tourism setting.

Prerequisites: Upper-division standing

ORTM 409-3 Critical Approaches to Outdoor Recreation

Activities This seminar course critically questions and creatively reconsiders the nature of outdoor recreation activities as related to contemporary, and interrelated, social and environmental issues. The course is firmly grounded in recreation and leisure studies literature offering anthropological, critical, historical, and socio-ecological interpretations of particular activities (e.g., canoeing, rock climbing, mountaineering), and involving concepts such as identity, place, skill, and community. The course may involve practical experiences and field trips to inform academic content, but these are not the focus.

Prerequisites: ORTM 100-3 and any 300 level ORTM courses, or permission of the instructor

ORTM 412-3 Issues and Trends in Outdoor Recreation and

Tourism This seminar examines current issues and problems in outdoor recreation and tourism, and explores philosophical, historical and contemporary trends and issues in outdoor recreation, parks and tourism. The future outlook for management, administration and utilization of recreation and tourism resources in BC will be examined.

Prerequisites: 90 credit hours or permission of the instructor

ORTM 414-3 Polar Tourism and Recreation This course focuses on the unique aspects of tourism and recreation in the Polar Regions. Topics covered include issues of shared management, sovereignty, science vs. tourism, adventure and expeditionary tourism and recreation, the logistical challenges of operating in such remote environments, and the impacts tourism and recreation have in the Polar Regions.

Prerequisites: 90 credit hours

ORTM 433-(1-6) Field School II This senior-level experiential course provides a combination of theoretical and practical skills in the field. The course integrates outdoor recreation and nature-based tourism perspectives, and is based in various locations in BC, and worldwide. ORTM 433 may be offered in conjunction with ORTM 333; in some years enrolment may be required in both. Note: ORTM 433 is typically a spring/summer course and therefore the ORTM Program encourages students not to take ORTM 433 in the spring of their 4th year. If a student chooses to take ORTM 433 in the spring of their 4th year there is no guarantee they will be able to use the credit for graduation in May of that year.

Prerequisites: Permission of instructor

ORTM 440-(2-6) Internship May be repeated for credit (maximum 6 credit hours).

ORTM 498-(1-3) Special Topics May be repeated for credit (maximum 3 credits).

ORTM 499-(1-6) Independent Study May be repeated for credit (maximum 6 credit hours).

Philosophy (PHIL)

PHIL 200-3 Critical Thinking This course introduces students to informal logic and critical thinking. Students will learn to identify standard errors in reasoning and apply these skills to contemporary readings and other forms of media representation.

Prerequisites: None

PHIL 201-3 Philosophy of Science A service course intended to introduce students to the conceptual/logical foundations of sciences. Topics include the nature of logic, scientific explanation, law, theories, use of probability and statistics, role of ethics and politics in science.

Prerequisites: None Precluded: POLS 205-3

PHIL 202-3 Comparative Religion An introductory course exploring issues related to the religious traditions of the world, e.g., Native spirituality, Hinduism, Judaism, Buddhism, Christianity, Shintoism, Islam, Paganism and Atheism. Basic questions to be considered include the existence of God, freedom and immortality, nature of spirituality, religious experience and religious language in people's life and world view.

Prerequisites: None

PHIL 205-3 Introduction to the History of Philosophy This course is an introductory survey of Western philosophy from the ancient Greeks to the late medieval period, including such thinkers as Pythagoras, Parmenides, Plato, Aristotle, Augustine and Aquinas. The course provides an overview of philosophical topics including ontology, epistemology and ethics.

Prerequisites: None Precluded: POLS 270-3

PHIL 210-3 Philosophy of Mind This course provides an introduction to fundamental issues in the philosophy of mind including the nature of the mind, the relationship between the mind and the body, and the nature of our thoughts and perceptions. Also included is an introduction to the works of some of the leading philosophers in the field.

Prerequisites: None Recommended: PSYC 101-3 Precluded: PSYC 202-3

PHIL 302-3 Philosophy of Religion This course examines religion from a philosophical perspective using classical and modern texts. Topics include the nature of religion, faith and reason, arguments for the existence of God and responses to them, and the relationship between religion and morality. Additional topics may include the relationship between religion and science, and non-Western philosophies of religion.

Prerequisites: Upper-division standing or permission of the instructor

PHIL 305-3 History of Philosophy: Early Modernity to Post-Modernity This course traces the history of Western philosophy from early modernity to the early twentieth century. Thinkers discussed may include Aquinas, Ockham, Descartes, Hobbes, Locke, Hume, Kant, Schopenhauer, Rousseau, Fichte, Hegel, Marx, Nietzsche and Heidegger.

Prerequisites: Upper-division standing or permission of the instructor Precluded: POLS 370-3

PHIL 325-3 Moral Philosophy This course is a survey of historical and contemporary western moral philosophy. Topics include philosophical ideas such as Platonism, virtue ethics, voluntarism, naturalism, Kantianism, social contract theory and consequentialism.

Prerequisites: None Precluded: POLS 317-3

PHIL 400-3 Classics in Philosophy This course provides a close analysis of a classic treatise in philosophy. Texts vary yearly.

Prerequisites: PHIL 205-3, POLS 270-3, PHIL 305-3 or POLS 370-3, or permission of the instructor *Precluded:* POLS 400-3

PHIL 472-3 Philosophical Research Seminar This is a participatory seminar in which students are guided through the process of conducting a research project in philosophy. Topics are chosen according to students' interests.

Prerequisites: PHIL 205-3, POLS 270-3, PHIL 305-3, or POLS 370-3, or permission of the instructor Precluded: POLS 472-3

Physics (PHYS)

PHYS 100-4 Introduction to Physics I First part of an algebra based introductory physics course for majors in life and environmental sciences: physics and measurement, the laws of motion, applications of Newton's second law, work and energy, linear momentum and collisions, static equilibrium, elasticity, law of universal gravitation, laws of thermodynamics, fluid mechanics, sound waves.

Prerequisites: Physics 12 or PHYS 115-4

PHYS 101-4 Introduction to Physics II Second part of an algebra based introductory physics course for majors in life sciences. Covers: electric charge, electric field, electric potential, DC circuits, magnetic field, sources of magnetic fields, magnetic induction, electromagnetic waves, geometrical optics, elements of modern physics.

Prerequisites: PHYS 100-4 or PHYS 110-4

PHYS 110-4 Introductory Physics I: Mechanics This is the first part of the calculus-based introductory physics course for majors in physical and mathematical sciences. Topics include vectors, measurement, motion in one and two dimensions, the laws of motion, application of Newton's laws, work and energy, potential energy, conservation of energy, linear momentum and collisions, rotation of rigid bodies, rolling motion, angular momentum, static equilibrium, elasticity, law of universal gravitation, and elements of thermodynamics.

Prerequisites: Physics 12 or PHYS 115-4, and Principles of Math 12 or

Pre-calculus 12 or MATH 115-3

Co-requisites: MATH 100-3 or MATH 105-3

PHYS 111-4 Introductory Physics II: Waves and Electricity

Second part of the calculus based introductory physics course for majors in physical and mathematical sciences, including oscillatory motion, wave motion, sound waves, superposition and standing waves, electric field, Gauss's law, electric potential, capacitance and dielectrics, current and resistance, DC circuits, magnetic fields, sources of magnetic fields.

Prerequisites: PHYS 110-4; or PHYS 100-4 with a grade of B or better Co-requisites: MATH 101-3

PHYS 115-4 General Introduction to Physics This is an Algebra based introductory physics course for students without Grade 12 Physics. Topics include: physics and measurement, the laws of motion, work and energy, linear momentum and collisions, static equilibrium, elasticity, laws of thermodynamics, fluid mechanics, sound waves, electric field, electric potential, DC circuits, magnetic field, electromagnetic waves, laws of geometrical optics, and elements of modern physics.

Prerequisites: Students with credit in Physics 12 require permission of the Program Chair

PHYS 150-3 Physics for Future Leaders This course examines the physics underlying major technological aspects of modern society and issues of global concern. Through addressing themes such as global warming, the energy problem and alternative sources of energy, nuclear power and nuclear weapons, health and medical technology, pollution of the atmosphere, satellites, telecommunication, and the internet, this course introduces basic physics topics such as motion and energy, atoms and heat, gravity and force, electricity and magnetism, light and electromagnetic waves, radioactivity and nuclear reactions, quantum physics, and relativity. This course requires no scientific or mathematical background and is accessible to students in any discipline.

PHYS 200-3 Thermal Physics Thermodynamics and introductory statistical mechanics, including temperature, reversible processes and work, first law of thermodynamics, second law of thermodynamics, entropy, thermodynamic potentials, change of phase, chemical potentials, third law of thermodynamics, kinetic theory of gases.

Prerequisites: PHYS 111-4 Co-requisites: MATH 200-3

PHYS 202-4 Electromagnetism and Optics Magnetic field, Ampere's law, Faraday's law, inductance, magnetism and matter, electromagnetic oscillations, alternating currents, Maxwell's equations, electromagnetic waves, geometrical optics, interference, diffraction.

Prerequisites: PHYS 111-4 Co-requisites: MATH 200-3

PHYS 205-3 Modern Physics I This is the first part of a two-semester course in modern physics providing an introduction to the theories of quantum mechanics and their applications. Topics include foundations of quantum theory, the quantum theory of light, the particle and wave nature of matter, the Schrodinger equation in one and three dimensions, tunneling phenomena, atomic structure and spectroscopy, and molecules and molecular spectroscopy.

Prerequisites: PHYS 111-4

PHYS 206-4 Modern Physics II This is the second part of a two-semester course in modern physics providing an introduction to the theories of quantum mechanics and relativity and their applications. Topics include Lorentz transformations, relativistic kinematics, relativistic dynamics, statistical physics, the solid state of matter, structure of crystals, semiconductors and superconductors, nuclear structure, radioactivity, nuclear reactions, applications of nuclear physics, elementary particles, and elements of cosmology.

Prerequisites: PHYS 205-3

PHYS 300-3 Classical Mechanics Analytical classical mechanics, including Newtonian mechanics, motion in non-inertial frames, Lagrangian dynamics, central-force motion, motion of rigid bodies, small oscillations, coupled oscillations, Hamiltonian dynamics.

Prerequisites: PHYS 111-4, MATH 220-3

PHYS 302-3 Quantum Mechanics I Breakdown of classical mechanics, wave packets, wave-particle duality, wave function and Schrodinger equation, eigenvalues and eigenfunctions, harmonic oscillator, potential wells, potential barriers, central force problems, hydrogen atom, spin and angular momentum, time dependence of quantum states.

Prerequisites: PHYS 205-3, MATH 230-3

Precluded: CHEM 303-3

PHYS 304-3 Biophysics Topics include the physics of biological systems, physical principles and techniques used to study the structure and dynamics of biological membranes.

Prerequisites: PHYS 101-4 or 111-4; BIOL 101-4, or BIOL 103-3 and BIOL 123-1

PHYS 305-4 Electronics Basics of electric and electronic circuits, including DC circuits, Kirchhoff's laws, Thevenin's and Norton's theorems, AC circuits, operational amplifiers, diodes, transistors, gates, combinational and sequential logic, filters, oscillators, control systems, digital circuits.

Prerequisites: PHYS 111-4 and PHYS 202-4 and PHYS 206-4, or permission of the instructor

PHYS 307-3 Selected Topics in Environmental Physics This course is a survey of such topics as atmospheric cycles, thermal radiation and molecular absorption, pollution of the atmosphere, the Greenhouse effect, ozone depletion in the stratosphere, environmental aspects of nuclear energy and waste, the radon problem. This course may not be used as Physics credit toward any Physics major, minor, or joint major degree.

Pre- or Co-requisites: PHYS 101-4 or PHYS 111-4

PHYS 310-3 Classical Electromagnetism - I First part of a two-semester course in electrodynamics: the electric field and the scalar potential; Coulomb's and Gauss's laws; Poisson's and Laplace's equations; boundary-value problems in electrostatics; electric multipoles; electric energy and forces; dielectric materials and continuity conditions; the magnetic field and the vector potential; Ampere's law; magnetic materials; magnetic energy and forces.

Prerequisites: MATH 201-3, PHYS 202-4

PHYS 351-3 Optics and Photonics I Geometrical and physical optics: mathematics of wave motion, electromagnetic theory of light, photons, laws of geometrical optics, aberrations in optical systems, optical instruments, superposition of waves, interference, polarization, diffraction, Fourier optics, holography.

Prerequisites: PHYS 202-4 Precluded: PHYS 301-3

PHYS 390-3 Advanced Physics Laboratory Advanced laboratory experiments in mechanics, thermodynamics, electromagnetism, solid state physics, and atomic and nuclear physics.

Prerequisites: PHYS 202-4, PHYS 206-4, PHYS 305-4 Precluded: PHYS 303-3 **PHYS 400-3 Quantum Mechanics II** Continuation of Quantum Mechanics I. Covers: matrix formulation, perturbation theory, approximation methods, scattering theory, many-particle problems, identical particles, spin and statistics, atomic and molecular systems.

Prerequisites: PHYS 302-3

PHYS 401-3 Seminar on Contemporary Topics in Physics
Special topics from current areas of research in basic and applied

Prerequisites: Permission of the instructor

PHYS 402-(1-6) Physics Research Project This is an experimental or theoretical research project conducted by the student under the supervision of a faculty member. This course may be repeated to a maximum of 6 credit hours.

Prerequisites: Upper-division standing in a Physics Degree and permission of the instructor

PHYS 404-3 Solid State Physics Physics of the solid state of matter. Covers: theories of metals, crystal lattices, reciprocal lattice, periodic potentials, electron dynamics, band structures, conduction in metals, phonons in metals, semiconductors, diamagnetism and paramagnetism, superconductivity.

Prerequisites: PHYS 202-4, PHYS 206-4, PHYS 302-3

PHYS 406-3 Subatomic Physics Properties and structure of subatomic particles, symmetries and conservation laws, electromagnetic, weak, and hadronic interactions, beta decay, alpha decay, gamma decay, models of nuclear structure, nuclear reactions, fission, fusion, quarks and hadron spectroscopy.

Prerequisites: PHYS 206-4, PHYS 302-3

PHYS 407-3 Statistical Mechanics Kinetic theory of gases, laws of thermodynamics, probability theory, probability distributions, equilibrium statistical ensembles, ideal gases, phase transitions, critical phenomena, quantum statistics.

Prerequisites: PHYS 200-3, PHYS 302-3

PHYS 409-3 Mathematical Methods in Physics This course surveys the methods and techniques involved in the formulation and solutions of physics problems. Topics include matrix algebra and group theory, eigenvalue problems, differential equations, functions of a complex variable, Green's functions, special functions, Fourier series, integral equations, calculus of variations, and tensor analysis.

Prerequisites: Permission of the instructor Precluded: MATH 409-3

PHYS 410-3 Classical Electromagnetism - II Second part of a two-semester course in electrodynamics: Faraday's induction law; inductance; Maxwell's equations; generation and propagation of electromagnetic waves; plane waves; spherical waves; reflection and refraction; wave guides; electric dipole radiation; magnetic dipole radiation; antennas.

Prerequisites: PHYS 310-3, MATH 334-3

PHYS 451-3 Optics and Photonics II An examination of selected topics in modern optics, quantum optics and photonics. Topics will generally include: propagation of electromagnetic waves in waveguides, fibre optic transmission, laser oscillators, resonators and amplifiers, semiconductor photon sources and detectors, and nonlinear optical effects.

Prerequisites: PHYS 206-4, PHYS 310-3, PHYS 351-3

PHYS 499-3 Advanced Topics in Physics Topics include a selection of topics from contemporary Physics.

Prerequisites: Permission of the instructor Precluded: this course may be taken more than once for credit provided that different topics are covered

Political Science (POLS)

POLS 100-3 Contemporary Political Issues An introduction to the basic concepts of political science through an examination of contemporary political issues: local, provincial, national and international.

Prerequisites: None

POLS 200-3 Canadian Government and Politics This course examines how Canadians organize their joint efforts to govern themselves at local, provincial, and federal levels. Attention is directed towards the political culture and its realization in constitutional rules of the game, in different institutions, and in the varied ways of influencing what governments do.

Prerequisites: None

POLS 202-3 Canada in Comparative Perspective This course compares the political, economic and social development of Canada with that of other industrial democracies and with that of developing and transitional countries throughout the world. The course focuses on several themes including democratic development and institutional growth, the role of government in society, citizen participation and engagement, and regional politics.

Prerequisites: 30 credit hours or permission of the instructor

POLS 205-3 Philosophy of Science This is a service course intended to introduce students to the conceptual/logical foundations of sciences. Topics include the nature of logic, scientific explanation, law, theories, use of probability and statistics, role of ethics and politics in science.

Prerequisites: None Precluded: PHIL 201-3

POLS 255-3 Introduction to Law in Canada This course is an introduction to the Canadian legal system and the practice of law in Canada. Topics include an overview of the legislative and judicial processes as well as a survey of the major areas of law. The course also introduces students to the role of the lawyer within the legal system.

POLS 257-3 Public Law in Canada Public law includes the areas of law regulating the internal operations of governments and state agencies, the interactions among orders or levels of government and the interactions between state and non-state actors. Subjects covered in this course include constitutional law, administrative law, human rights law and criminal law and procedures.

Precluded: HIST 257-3

POLS 258-3 Private Law in Canada Private law refers in general to the areas of law that regulate the interactions among non-state actors including citizens, corporations and non-state agencies. The course covers such areas as property law, torts, contracts, family law and commercial law in Canada.

Precluded: HIST 258-3

POLS 270-3 Political Philosophy: Antiquity to Early

Modernity This course is a survey of political philosophy from the Greeks to the 15th century tracing the development of contending conceptions of political order in the context of the philosophical ideas of the time.

Prerequisites: None

Precluded: POLS 204-3 and PHIL 205-3

POLS 290-3 Research and Writing for Political Science This course provides training in essential research and writing skills in political science. Students learn how to complete research papers in the discipline and thereby develop advanced reading and writing skills for their future careers. Students are expected to complete this course in their first or second year of study.

POLS 298-3 Special Topics in Political Science The content of this course varies according to the instructor and student requests. This course may be repeated, up to a maximum of six credit hours.

POLS 302-3 How Government Works This course enables students to navigate the political and bureaucratic structures and processes that shape our lives on a daily basis. It also provides students with practical skills to pursue careers in government at the local, provincial and federal levels.

Prerequisites: POLS 100-3, upper-division standing, or permission of the instructor

POLS 303-3 Democracy and Democratization This course compares the struggle for democracy and its alternatives through a survey of different approaches to political development.

Prerequisites: Upper-division standing

POLS 305-3 United States Politics This course examines the organization and function of the United States government. Topics include the constitution, political parties, electoral system, voting record, state's rights, checks and balances.

Prerequisites: Upper-division standing

POLS 309-3 Politics and Society in China This course examines Chinese political and social development through the 20th century with the primary attention to comparing past and present in state building, economic development, and social change.

Precluded: HIST 340-3

POLS 311-3 Russian Politics and Society This course examines the political, economic and social transitions that are currently taking place in Russia, as well as the historical forces that have shaped political life in this fascinating country.

Prerequisites: Upper-division standing

POLS 314-3 European Politics and Government This course introduces students to European politics and government. It focuses on the historical development and contemporary challenges facing the European Union, a supranational federation that includes the majority of European countries.

Prerequisites: Upper-division standing

POLS 315-3 Contemporary Issues in the Circumpolar World This course provides students with an in-depth understanding of a variety of issues in the Canadian and circumpolar Arctic, including governance and politics, Indigenous peoples and self-government, education, the environment and resource development, gender, health, and Arctic security and sovereignty.

Prerequisites: Upper-division standing or NORS 101-3 Precluded: NORS 332-3

POLS 316-3 Municipal Government and Politics This course is an introduction to the study of local government, with special attention to citizen participation, and administrative structure in municipal politics.

Prerequisites: Upper-division standing

POLS 317-3 Moral Philosophy This course is a survey of historical and contemporary Western moral philosophy. Topics include philosophical ideas such as Platonism, virtue ethics, voluntarism, naturalism, Kantianism, social contract theory and consequentialism.

Prerequisites: Upper-division standing Precluded: PHIL 325-3

POLS 320-3 Canadian Politics and Policy This course provides an introduction to the concepts, goals and methods of policy analysis, with applications to current policy issues in Canada, British Columbia and the North. Topics include public opinion surveys and the statistical analysis of policy preferences.

Prerequisites: Upper-division standing or permission of the instructor

POLS 327-3 Leadership and Ethics in Local Government This course examines the principles and practices of ethical leadership with a particular focus on local government.

POLS 332-3 Community Development How can communities develop politically, economically and socially, in ways that serve their needs and are appropriate to their environment, culture and expectations? This course explores the nature and interpretations of community development, using experiences from Canada, the Circumpolar North and the Asia-Pacific region.

Prerequisites: Upper-division standing or permission of the instructor

POLS 333-3 Politics and Government of BC This course surveys the many faces and challenges of BC politics, with specific attention to political culture and parties, the political economy, government and administration, and contemporary issues.

Prerequisites: Upper-division standing or permission of the instructor

POLS 338-3 Parties and Elections This course is an introduction to the concepts, methods and empirical tools used to study political parties and elections in Canada.

Prerequisites: Upper-division standing

POLS 344-3 Society, Policy and Administration of Natural Resources This course on natural resource and environmental management explores the ways in which ideas and interest are articulated and conflicts are resolved within the policy process.

Prerequisites: Upper-division standing or permission of the instructor Precluded: NREM 306-3 and POLS 334-3

POLS 350-3 Law and Municipal Government This course examines the legislation, regulations and court decisions relevant to municipal governments in British Columbia.

Prerequisites: Upper-division standing or permission of the instructor Precluded: POLS 250-3

POLS 351-3 Local Services and Public Policy This course examines local government services and the challenges involved in their delivery to local communities. Topics include public works, protective services, refuse collection, recreation and cultural services, health and social services and environmental protection.

Prerequisites: Upper-division standing or permission of the instructor Precluded: POLS 251-3

POLS 353-3 Project Management in Local Government This course teaches students how to plan, implement and manage projects in and for municipal and local governments. Students are taught how to design project plans and how to bring complex projects to fruition. Skills learned by students include scheduling, budgeting, communication, personnel management and the management of change.

Prereauisites: None

POLS 360-3 Local Government Finance This course examines budgeting with a particular focus on local government. Topics include assessment, taxation collection, the development of local budgets, provincial and federal government transfers, and long-term financial planning.

Prerequisites: Upper-division standing or permission of the instructor Precluded: POLS 260-3

POLS 370-3 Political Philosophy: Early Modernity to Post-Modernity This course traces the history of Western political thought, in the wider context of the history of philosophy, from early modernity to the early twentieth century. Thinkers discussed may include Aquinas, Ockham, Descartes, Hobbes, Locke, Hume, Kant, Schopenhauer, Rousseau, Fichte, Hegel, Marx, Nietzsche and Heidegger.

Prerequisites: Upper-division standing or permission of the instructor Precluded: PHIL 305-3 POLS 372-3 Theories of Justice This course introduces students to the study of justice in contemporary political theory and practice. Specific topics include justice in the liberal and libertarian traditions, justice as impartiality, justice and the politics of difference, justice as a universal or culturally bound norm, reconciliation and transitional justice, and questions surrounding historic injustice and its contemporary redress. Case studies from Canada and around the globe are used to highlight the challenges associated with implementing the requirements of justice in concrete political settings.

Prerequisites: Upper-division standing or permission of the instructor

POLS 380-3 Law and Indigenous Peoples This course provides an introduction to Indigenous peoples' rights in international and domestic law and examines the key legal and political instruments and issues associated with Indigenous peoples' rights and interests. Topics may include but are not limited to the following: human rights, resource development, global pressures, intellectual property, customary law, traditional knowledge, dispute resolution, treaties and Supreme Court cases. The course is based on the methodological and theoretical foundations of comparative constitutional law, international law, Indigenous law and legal anthropology.

Precluded: POLS 220-3, FNST 250-3, FNST 350-3

POLS 400-3 Classics in Political Philosophy This course provides a close analysis of a classic treatise in political philosophy. Texts vary yearly. The course may be repeated for a maximum of six credit hours with permission of the instructor.

Prerequisites: PHIL 205-3, POLS 270-3, PHIL 305-3 or POLS 370-3, or permission of instructor

POLS 401-3 Resource Politics This course examines the roles which natural resources and the environment have come to play within the contemporary political system, with an emphasis on Canada and British Columbia.

Prerequisites: restricted to fourth year students or permission of the instructor

POLS 403-3 Social and Health Policy and Administration This course examines the evolution of social and health services in Canada in a comparative context. This includes the provision of public services, federal-provincial relations and the development of community health and social services.

Prerequisites: restricted to fourth year students or permission of the instructor

POLS 405-3 Topics in Society and Democracy This course is a comparative analysis of the challenges of political, economic and social transition. Topics may include religion and democracy, the market and democracy, and constitutions and democracy.

Prerequisites: restricted to fourth year students or permission of the instructor

POLS 412-3 Comparative Aboriginal State Relations This course is a comparative study of relations between modern states and aboriginal peoples, and the quest by aboriginal peoples for self-determination.

Prerequisites: 90 credit hours or permission of the instructor

POLS 413-3 Democracy and Diversity This course is an exploration of the politics of ethnic, racial and religious diversity and its impact on the theory and practice of democracy in the 21st Century. Theoretical concepts and models are examined in relation to case studies drawn from Canada and around the globe.

Prerequisites: restricted to fourth year students or permission of the instructor

POLS 414-3 Comparative Federalism This seminar course examines the theories, concepts and issues that influence politics and policy-making in federal countries around the world.

Prerequisites: 90 credit hours or permission of the instructor

POLS 415-3 Comparative Northern Development This seminar course examines the strategies and challenges of northern development in Canada, Russia and other parts of the Arctic region.

Prerequisites: 90 credit hours or permission of the instructor

POLS 417-3 Ethical Leadership This course provides an overview of the literature on leadership throughout history as well as reviews the main leadership theories developed in the 20th and 21st centuries, with a focus on what makes a good leader, both in the sense of administrative or managerial effectiveness as well as in a moral sense. Models of successful leadership in both the public and private sector are explored through case studies.

Prerequisites: Upper-division standing Precluded: COMM 437-3

POLS 422-(3-6) Ethnographic Research Project This course gives students the experience of a field school in which they study selected aspects of politics, cultures and peoples in order to design and carry out a major research project. Course materials vary depending on the location of the field school and on the general research topic. This course may be repeated to a maximum of 6 credit hours.

Prerequisites: Upper-division standing or permission of the instructor Precluded: ANTH 422-(3-6)

POLS 427-3 Ethics and Public Affairs This course is an exploration of the ethical foundations of domestic and foreign policy making in contemporary democratic states. Special emphasis is placed on the tension that frequently arises between moral idealism and political realism in the conduct of public affairs.

Prerequisites: Upper-division standing or permission of the instructor

POLS 434-3 Resource Communities in Transition This course examines the issues facing rural, remote and northern resource communities across Canada. It compares issues across Canada's provincial north as well as has a specific focus on northern British Columbia. Issues discussed include, among other things, the economic realities of globalization, the issues of identity for resource communities, and the effects of urban policy decision processes on rural, remote and northern regions.

Prerequisites: Upper-division standing Precluded: POLS 401-3

POLS 440-3 Internship I An internship allows students to receive credit while gaining practical experience in a professional workplace under the guidance of a workplace supervisor and a UNBC instructor. Students with proposals for an internship should consult the Department Chair well in advance.

Prerequisites: Upper-division standing and permission of the Department Chair

POLS 441-3 Internship II This course allows students to continue an internship begun in POLS 440-3 or to begin a new internship. Students with proposals for a continuation or for a new internship should consult the Department Chair well in advance.

Prerequisites: Upper-division standing and by permission of the Department Chair

POLS 472-3 Seminar in Political Philosophy This is a participatory seminar in which students are guided through the process of conducting a research project in political philosophy. Topics are chosen according to students' interests.

Prerequisites: Upper-division standing

POLS 480-3 Law and Politics in the Arctic This course focuses on legal and political issues in the Arctic, including relevant areas of international law, comparative constitutional law, political science and international relations. Topics may include sovereignty, resources, the environment, geo-political trends, human rights including Indigenous peoples' rights, governance, international cooperation, security, diplomacy and globalization.

Prerequisites: Upper-division standing

POLS 498-3 Special Topics in Political Science The content of this course varies according to the instructor and needs of the students. This course may be repeated up to a maximum of 6 credit hours with permission of the Department Chair.

Prerequisites: Upper-division standing and permission of the Department Chair

POLS 499-3 Independent Study The content of this course varies according to the instructor and the needs of students.

Prerequisites: Upper-division standing and permission of the Department Chair

Psychology (PSYC)

PSYC 101-3 Psychology as a science This course describes psychology as a basic science in two logical modules: psychology as a natural science and psychology as a social science.

Prerequisites: None

PSYC 102-3 Psychology and human problems This course describes how psychological science has been applied to understanding and dealing with many of the practical problems of human existence. Topics addressed include the promotion of healthy human development, health science applications of psychology, including the description and treatment of psychological disorders and the contribution of psychology to the understanding and modification of social problems.

Co-requisites: PSYC 101-3

PSYC 200-(3-6) Current Topics This course deals with how concepts from psychology may be addressed to topics of current public interest. Examples of issues that may be included are psychological issues in the north, family violence, psychology and the justice system, modelling intelligent behaviour. The theme of the course will be updated each year and advertised in advance. This course may be repeated for a maximum of 6 credit hours.

Prerequisites: PSYC 101-3, PSYC 102-3

PSYC 202-3 Philosophy of Mind This course provides an introduction to fundamental issues in the philosophy of mind including the nature of the mind, the relationship between the mind and the body, and the nature of our thoughts and perceptions. Also included is an introduction to the works of some of the leading philosophers in the field.

Prerequisites: PSYC 101-3, and PSYC 102-3, or permission of the instructor

PSYC 215-3 Research Design and Methodology in

Psychology I In this course students will learn basic research design and the methods psychologists use to investigate behaviour and mental processes, with particular emphasis on empirical methodology. The course provides students with hands-on experience in research design, data collection and writing research reports in APA style.

Prerequisites: PSYC 101-3, 102-3

PSYC 220-3 Psychology of Gender and Gender Relations An introduction to contemporary issues related to differences in the experience and behaviour of males and females.

Prerequisites: PSYC 101-3, 102-3

PSYC 301-3 Social Psychology This course examines human behaviour in its social context. Specific topics covered include interpersonal interaction, social motivation and attitudes, prejudice, socialization and communication.

Prerequisites: PSYC 101-3, 102-3 and a total of 30 credit hours successfully completed

PSYC 303-3 Introduction to Abnormal Psychology This course provides an introduction to the study of abnormal behaviour. Topics include the history of psychopathology, definitions of abnormality, classification and assessment, models of psychopathology and an introduction to the specific syndromes of abnormal behaviour.

Prerequisites: PSYC 101-3, 102-3 and a total of 60 credit hours successfully completed

PSYC 306-3 Theories of Personality This course provides an introduction to the study of personality. Influential models of personality structure and function are examined as are techniques for personality assessment.

Prerequisites: PSYC 101-3, 102-3 and a total of 30 credit hours successfully completed

PSYC 307-3 Motivation and Emotion This course addresses the properties and determinants of motivated behaviour and emotional states. Topics include eating and drinking, defence, sexual behaviour and the nature, structure and mechanisms of emotion.

Prerequisites: PSYC 101-3, 102-3 and a total of 60 credit hours successfully completed

PSYC 309-3 Introduction to Health Psychology This course provides an introduction to behavioural health science.

Prerequisites: PSYC 101-3, 102-3 and a total of 60 credit hours successfully completed

PSYC 315-4 Design and Analysis of Psychological

Research I This course addresses the design, description and analysis of psychological research. Principles of research design are taught, along with common methods for analyzing data from descriptive statistics through correlational and nonparametric techniques to analysis of variance. Multivariate methods are introduced. Research design and analysis issues are addressed in an integrated manner.

Prerequisites: PSYC 101-3, 102-3, 215-3, and a total of 60 credit hours successfully completed

PSYC 316-4 Design and Analysis of Psychological Research IIThis course is a continuation of Psychology 315-4, addressing the design, description and analysis of psychological research.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4 and total of 60 credit hours successfully completed

PSYC 317-3 Psychobiology This course provides an introduction to the study of the biological roots of behaviour. This course addresses the structure and function of the nervous system and its role in psychological processes, including perception, emotion, motivation, cognition, memory and overt behaviour.

Prerequisites: PSYC 101-3, 102-3 and a total of 60 credit hours successfully completed

PSYC 318-3 Sensation and Perception This course provides an introduction to the study of sensory processes. Topics include vision, audition, taste, olfaction and somesthetic senses. These are taught within the context of the physiological and psychophysical methods that give rise to knowledge in this field.

Prerequisites: PSYC 101-3, 102-3 and a total of 60 credit hours successfully completed

PSYC 320-3 The Psychology of Learning This course provides an introduction to the study of learning. Topics covered include classical and operant processes, and cognitive models of response acquisition and change.

Prerequisites: PSYC 101-3, 102-3 and a total of 60 credit hours successfully completed

PSYC 330-3 Cognition This course provides an introduction to current research and theories of human mental processes and the methods used to study them. Topics may include attention, memory processes and systems, concept formation, language processing, problem solving, reasoning, and judgment and choice.

Prerequisites: PSYC 101-3, 102-3 and a total of 60 credit hours successfully completed

PSYC 345-3 Lifespan Development This course addresses the development of psychological abilities and characteristics and the mechanisms that subserve them. The full range of the human lifespan, from the prenatal period to the senior years, is examined.

Prerequisites: PSYC 101-3, 102-3, and a total of 30 credit hours successfully completed Precluded: SOCW 421-3

PSYC 401-3 Advanced Social Psychology Advanced issues in the examination of human behaviour in its social context.

Prerequisites: PSYC 101-3, 102-3, 215-3, 301-3

PSYC 403-3 Patterns of Psychopathology and Their Treatment

This course addresses major syndromes of abnormal behaviour, introducing students to the major biological and experiential theories of their origins. Approaches to treatment are also addressed.

Prerequisites: PSYC 101-3, 102-3, 215-3, 303-3

PSYC 405-3 Clinical Psychology This course deals with the contemporary practice of clinical psychology. Topics include the role of the clinical psychologist, psychological assessment, the conduct of psychological therapies and ethical issues.

Prerequisites: PSYC 101-3, 102-3, 215-3, 303-3 Co-requisites: PSYC 403-3

PSYC 408-3 Environmental Problems and Human

Behaviour This course is a study of the individual's role in environmental conservation. Many environmental problems have their origin in human behavior. The field of psychology is able to identify factors within and outside the individual that give rise to unsustainable lifestyles and, therefore, to identify approaches to conservation that take human psychology and well-being into consideration.

Prerequisites: Upper-division standing Recommended: PSYC 102-3, PSYC 301-3

PSYC 409-3 Advanced Health Psychology This course focuses on advanced issues in the field of health psychology. Topics include psychosocial epidemiology, health behaviour and its determinants, stress and its management, the modification of health-related behaviour, disease prevention and health promotion.

Prerequisites: PSYC 101-3, 102-3, 215-3, 309-3 For BHSc students only: PSYC 101-3, 102-3, 309-3, and HHSC 351-3

PSYC 415-3 Advanced Developmental Psychology This course deals with advanced issues in the field of developmental psychology. Topics may include development of the self, sex differences in interpersonal styles, adolescent problems such as drug and alcohol abuse, pregnancy and suicide, parenting, divorce, families, adulthood, death and bereavement, or successful aging.

Prerequisites: PSYC 101-3, 102-3, 215-3, 345-3

PSYC 417-3 Behaviour Modification This course examines the application of behavioural and social learning concepts to the change of problematic human behaviour.

Prerequisites: PSYC 101-3, 102-3, 215-3

PSYC 418-3 Advanced Issues in Perception and Sensation This course provides a treatment of advanced questions in the study of perception. Building on an understanding of fundamental sensory mechanisms, this course provides further exploration of the mechanisms of perception and the manner in which perceptual processes are integrated with such other psychological processes as attention, learning, memory and cognition. Mechanisms are highlighted by discussion of such topics as the perception of pain, emotion and speech.

Prerequisites: PSYC 101-3, 102-3, 215-3, 318-3

PSYC 419-3 Neuropsychology This course provides an introduction to sensory, motor, cognitive and affective disorders resulting from brain damage and dysfunction.

Prerequisites: PSYC 101-3, 102-3, 215-3, 317-3

PSYC 427-3 Cross-cultural Psychology This course deals with cultural differences in behaviour, with a special emphasis on intercultural issues in pluralistic societies.

Prerequisites: PSYC 101-3, 102-3, 301-3

PSYC 430-3 Advanced Cognitive Psychology This course examines advanced issues in the study of cognition. Topics may include models of memory, implicit learning, decision theory, computer simulation of thought and action.

Prerequisites: PSYC 101-3, 102-3, 215-3, 330-3

Laboratories: Courses in the 442 - 495 series are restricted to Psychology majors only. Ordinarily, these will be restricted to students in their fourth year of studies.

PSYC 442-3 Methods in Developmental Psychology This course addresses experimental and observational methods used in developmental psychology.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, 345-3

PSYC 445-3 Methods in Perception and Psychophysics This course provides exposure to the psychophysical techniques used in the study of human sensory systems and perception.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, 318-3

PSYC 450-3 Tests and Measures This course provides exposure to the design, conduct and interpretation of common techniques for describing human thoughts, feelings, and behaviours.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4

PSYC 455-3 Methods in Social Psychology This course addresses experimental and observational techniques commonly used to test hypotheses about human social behaviour.

Prerequisites: PSYC 101-3, 102-3, 215-3, 301-3, 315-4

PSYC 460-3 Methods in Cognitive Psychology This seminar style course allows students to discuss, present and critically evaluate research on human mental processes, with particular emphasis on methodological issues.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, 330-3

PSYC 470-3 Psychophysiology This course offers an introduction to the measurement of physiological responses to psychological conditions

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4 and one of 301-3, 306-3, 307-3, 309-3, 317-3

PSYC 475-3 The Evaluation of Social Programs This course offers an introduction to the methods and processes of program evaluation. Topics covered include needs assessment, the development of measures, formative and summative evaluation.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, or permission of the instructor

PSYC 480-3 Critical Analysis in Psychology and the Health

Sciences This course addresses the logic of drawing conclusions in psychology and the health sciences. Through an analysis of the requirements for conducting reviews of the literature on a particular topic, the process of summarizing findings, and the conduct of clinical trials and their analysis, students are exposed to common pitfalls in and prerequisites for the establishment of knowledge.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, or permission of the instructor

PSYC 485-3 Current topics in Psychological Research This course provides exposure to advanced laboratory methods applied to areas of emerging interest in psychology.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, and upper-division standing and permission of the instructor

PSYC 490-3 Honours Thesis I In this course, students pursue an independent research project. Credit for this course is based on the introduction and proposed methodology for the project.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, 316-4

PSYC 495-3 Honours Thesis II In this course, students pursue an independent research project. Credit for PSYC 495-3 will be based on a report of the results and implications of the project.

Prerequisites: PSYC 101-3, 102-3, 215-3, 315-4, 316-4

PSYC 497-3 Senior Seminar This course provides an integrative seminar for advanced students. Enrolment is restricted to fourth-year Psychology students.

Prerequisites: PSYC 101-3, 102-3, 215-3, and 90 credit hours successfully completed

PSYC 498-3 Special Topics in Psychology A course on a special topic, delivered in a lecture or seminar format. No more than three credit hours in Special Topics courses may be applied toward a major in Psychology.

Prerequisites: PSYC 101-3, 102-3, 215-3 and upper-division standing and permission of the instructor

PSYC 499-(3-6) Independent Study A course on a selected topic based on readings directed by an instructor. The course format and requirements will be based on a formal contract with the instructor. No more than six credit hours in Independent Study courses may be applied toward a major in Psychology.

Prerequisites: PSYC 101-3, 102-3, 215-3 and upper-division standing Psychology major and permission of the instructor

Social Work (SOCW)

SOCW 200-3 Introduction to Social Work Practice This course provides an overview of Social Work practice including the historical, political, philosophical and practical bases in Canadian society. It introduces students to the values, concepts and the relevant Social Work Codes of Ethics. There is also an overview of current social problems and related fields of practice.

Prerequisites: None

SOCW 201-3 Introduction to Social Welfare Introduces students to the welfare state in Canadian society. It examines historical, ideological and contemporary issues in the Canadian welfare state and reviews some of the major programs, policies and concerns confronting policy makers, social workers and client groups.

Prerequisites: None

Note: Social Work required courses at the 300 and 400 levels may be taken only by those students admitted into the program. Social work elective courses may be taken by other UNBC students depending on space and permission of the Program Chair, School of Social Work. The elective courses may be of particular interest to students in Nursing, Education, Psychology, Political Science, Women's Studies and Public Administration. Priority is given to admitted Social Work students.

SOCW 300-3 Social Work Communication Skills Communication Skills in Social Work Practice is an introductory course that aims to increase skills and analysis in the diverse cultural settings that are appropriate to social work among First Nations and remote, northern and rural communities. Learning to recognize the contradictions in people's experiences and to maximize the possibilities, resources and strengths in their lives are critical aspects of a social worker's practice. Emphasis on integration of interpersonal and analytic skills in learning effective helping strategies within a structural framework that acknowledges the influence of class, race and gender in shaping personal and social well-being. This course includes a Skills Laboratory.

Prerequisites: enrolment limited to students admitted to the School of Social Work

SOCW 301-3 Critical Social Work Practice This course critically examines the historical origins, values, methods and applications of various social work practice approaches. With an emphasis on structural, feminist, and First Nation social work strategies, the focus includes the application of these approaches to women, minority groups, First Nations, and residents of northern and remote communities. These will be contrasted with other models of social work practice including general systems theory, ecological theory, and case management.

Prerequisites: enrolment limited to students admitted to the School of Social Work

SOCW 302-6 Social Work Field Education I An initial three-day per week field placement, which includes a bi-weekly integrative seminar, is required of all students. Students are involved in a wide range of practice roles and responsibilities at the individual, family, group and community levels. The course provides an initial opportunity for students to link social work concepts and theory with practice skills. It also introduces students to the structure, goals and operation of different human service agencies. Field practice objectives and details are worked out among the student, the agency supervisor and the faculty field instructor.

Prerequisites: SOCW 300-3, 301-3, 310-3 and 320-3; enrolment is limited to students admitted to the School of Social Work

SOCW 310-3 First Nations Social Work Issues This course examines methods of developing an anti-racist social work practice in the context of First Nations experience. Particular emphasis is placed on understanding emerging models and structures within First Nations communities. The development of these models is explored within a context of analyzing the impact of the colonial experience. Students are introduced to alternative methods including some of the healing strategies and organizational structures in First Nations communities.

Prerequisites: enrolment limited to students admitted to the School of Social Work

Precluded: SOCW 410-3

SOCW 320-3 Critical Social Policy This course examines the development of social policy in Canada, including current debates, from conventional and critical perspectives inviting students to consider the relationship between research, policy and social work practice. The course will review ideologies of social welfare policy, its formulation and implementation and consequences for people in need. Policy formulation will be analyzed from a critical perspective that examines the role of power and privilege in the construction of social policy. Alternative social arrangements and models of policy and practice will be explored.

Prerequisites: enrolment limited to students admitted to the School of Social Work

SOCW 330-3 Social Work Research/Policy/Practice Social Work Research, Policy and Practice introduces research methods and analysis techniques that are used to examine issues in the policy and practice of social work and social welfare. It reviews qualitative and quantitative approaches with an emphasis on community needs research, participatory research and the development of interview schedules and questionnaires. The methods examined in this course will be linked to substantive policy and practice issues that reflect the economic, social and personal circumstances of people and communities in northern, remote and First Nation communities.

Prerequisites: Enrolment limited to students admitted to the School of Social Work

SOCW 336-3 Social Work Philosophy and Ethics This course critically assesses the ethical issues involved in carrying out the tasks of Social Work practice, policy and research. Using the relevant Social Work Codes of Ethics as a starting point, these practice, policy and research roles are considered in the context of northern and remote Social Work. The course reviews different theoretical approaches to Social Work.

Prerequisites: Enrolment limited to students admitted to the School of Social Work

SOCW 401-3 Northern/Remote Social Work Practice Northern and Remote Social Work Practice builds on the structural approach examined in SOCW 301-3. Critical generalist practice will be examined within the context of current and emerging client populations and practice issues. The course aims to develop a critical awareness/ analysis of the nature, cause and response of social workers to the social problems they are meant to deal with in the field practice aspects of their work in northern and remote communities.

Prerequisites: All 100, 200, and 300 level required courses in Social Work

SOCW 402-15 Social Work Field Education II This field placement requires students to perform in a social work role or organizational setting five days per week throughout the term. Field education provides undergraduate students with an opportunity to enhance and refine their social work skills. As much as possible, the assigned field education setting will broadly match the particular type of social work experience that the student wishes to pursue. The course includes three one-day seminars as part of the field education placement.

Prerequisites: All 100-, 200-, 300-, and 400-level requirements; enrolment limited to students admitted to the School of Social Work

SOCW 420-3 Family/Child Welfare Policy Family and Child Welfare Policy focuses particularly on feminist and First Nations critiques of child welfare policy and social work intervention. It critically examines assumptions in family and child welfare policy including notions of family, substitute care, conceptions about violence and neglect, and the implications of child and welfare policy for social work practice in northern communities.

Prerequisites: SOCW 320-3; enrolment limited to students admitted to the School of Social Work

SOCW 421-3 Human Growth and Development This course examines human growth and development with an emphasis on social processes from birth to death. The course follows a life cycle approach and addresses the influence of issues such as culture, class, gender and sexual orientation. Linkages are drawn between individual human development and health and social welfare policy, particularly as it effects residents of northern British Columbia. Note: students who have not taken a human growth and development course must take this course prior to graduating with a BSW.

Prerequisites: Enrolment limited to students admitted to the Health Sciences, Nursing, Psychology and Social Work, or with permission of the Social Work Chair. If students have previously taken a human growth and development course, they must check with a Student Advisor to ensure that the course meets the Human Growth and Development requirement.

Precluded: PSYC 345-3

SOCW 422-3 Child Welfare Practice This course examines child maltreatment from the perspective of social work practice in the field of child welfare. The course looks at various forms of child maltreatment including methods of assessing maltreatment and the cultural and structural factors that must be considered in assessing issues such as risk. Intervention strategies are also examined along with the legal procedures and responsibilities carried by child welfare social workers.

Prerequisites: SOCW 301-3

Precluded: Students not admitted to the School of Social Work

SOCW 424-3 Child Welfare/Sites of Resistance Sites of Resistance: Race, Poverty and Sexuality in the Fields of Child Welfare focuses on contemporary child welfare policy and practice from the standpoints of racial and sexual minorities as well as from those on the economic margins of contemporary capitalist/patriarchal society.

Prerequisites: SOCW 420-3

SOCW 426-3 Current Issues in Child Welfare Practice This course highlights topical child welfare issues, and current trends in child welfare practice, examines different methods of intervention and attempts to link changes in the economic circumstances of families to the social well being and healthy family functioning.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 432-3 Unemployment and Social Work Unemployment, Social Welfare and Social Work Practice examines the implications of unemployment and underemployment for social work practice and policy within a provincial, national and global context. In particular, the course will focus on the reframing of unemployment as a social work issue, explore the social consequences of joblessness, and identify models of policy and practice which are applicable in different environments: northern, rural, urban and single industry communities. Alternative policies will be explored.

Prerequisites: Upper-division standing; enrolment limited to students admitted to the School of Social Work or permission of the Social Work Chair

SOCW 433-3 Women in the Human Services From a feminist and structural social work perspective, this course examines a range of women's issues in terms of socialization, work, health, sexuality, power and the state, legal issues, and the impact these have on the roles and positions of women in Canadian society, and in particular within human and social services.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 435-3 Community Social Policy This course represents a community practice project geared to integrating Social Work theory, policy, research and practice with specific community issues. Students prepare public briefs on actual areas of community concern in the light of Social Work and welfare theory, policy and practice. The brief focuses on proposed forms of action and the implementation of the strategies of change and intervention.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 437-3 Social Work with Groups and Communities This course examines the historical evolution of group work and the role that Social Work has played within this context. Different types of group approaches and experiences are discussed, including professionally led groups and self-help groups. Students consider the operation of groups through analysis of group norms, roles, values, goals and decision making from a perspective that is both theoretical and experiential.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 438-3 Comparative Welfare Analysis This course provides a critical introduction to Canadian and comparative social policy as it relates to evolving issues in Social Work practice. Its main theme is to show how the welfare systems of individual countries can only be understood through exploring the wider international context. Particular attention is paid to the interactions between family policies and issues of race and gender, and to the processes by which individuals or groups are given or denied access to full welfare citizenship. Topics include: principles of comparative studies; models of welfare; convergence versus divergence; the dynamics of welfare-state development; welfare regime analysis, crisis of the welfare states, and the impact of welfare states.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 439-3 Social Work/Law and the Justice System This course examines various areas of the Canadian legal system: constitutional documents and conventions, the court system, the provincial legislative powers, rights of Aboriginal Peoples, the Charter of Rights and Freedoms, and provincial legislation (such as Adoption Act; Child, Family and Community Service Act; Child, Youth and Family Advocacy Act, Family Relations Act, etc). It also examines the practice of Social Work in court settings. Specifically, it provides a basic understanding of the rights and interests of children, rules of evidence, and the role of various interveners. Court writing skills will be introduced and court visits will be arranged.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 440-3 Social Work In Mental Health This course examines policy and practice issues pertaining to the understanding and delivery of Social Work services to people with a psychiatric disability. Although the content will explore many ideas that are international and national in scope, the primary focus is on the policies and practices that are relevant to people in northern British Columbia. Students will examine assessment and intervention methods as well as analyze the impact of current trends and changes in the health and social welfare system pertaining to people who require mental health services. The nature and impact of psychiatric disability are viewed from both an individual level as well as a structural level of analysis. The major emphasis is on practice and policy issues relating to people who are sometimes described as "psychiatric survivors."

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 441-3 Social Work and Substance Abuse Social Work and Substance Abuse examines alcohol and other drugs in terms of their effects on individuals, families and society. It also looks at different roles of social workers and human service workers in helping people deal with and understand alcohol and drug abuse.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 442-3 Social Work with Victims of Abuse Social Work with Victims of Abuse examines physical, emotional and sexual abuse and violence perpetrated on less powerful individuals. The roles played by the helping professions in this context are also examined.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 443-3 Medical Social Work Focuses on the knowledge, attitudes and skills workers need to practice effectively in health care settings. Case studies will be used to demonstrate different methods of intervention in this context.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 444-3 Social Work Critical Issues in Aging Critical Issues in Aging, Social Work Practice and Research examines the physical, social and psychological needs of the elderly. Adaptation of generic social work skills in effective intervention with and on behalf of the aged is also examined.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 445-3 Social Work and Cross-Cultural Practice Social Work and Cross-Cultural Practice provides interdisciplinary approaches to understanding cultural and visible minority groups in relation to society and differential access to power are examined. The course will examine and critically evaluate different methods of assistance and intervention offered by social work to minority groups.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 448-3 Inequality and Income Security — Poverty, Inequality and Income Security examines the changing landscape of Canadian social policy and its implications for poverty, income inequality and income security. It reviews the evolution and devolution of major Canadian income security policies with a special focus on British Columbia. The implications of these changes on poverty and income inequality are examined for the people that live and work in northern British Columbia. This is done by looking at changes in poverty and income inequality for specific groups that include single mothers, First Nations, women, men, the unemployed and underemployed, the elderly, and those dependent on public assistance.

Prerequisites: Upper-division standing; enrolment limited to students admitted to the School of Social Work or permission of the Social Work Chair

SOCW 449-3 Gender and Sexuality This course critically examines constructions of gender and sexuality that include cross-cultural and class analyses. It also focuses on the historical character of sexual relations and gender and begin to challenge what is taken for granted in contemporary society specifically as these notions affect social work policy and practice.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 450-3 Social Work and Family Practice Social Work and Family Practice through the application of family systems theory, will examine current approaches to working with families in community counselling settings. Completion of a family assessment, as well as a critical examination of power dynamics in families, and their connection with the larger society will be undertaken. Issues of gender, race, age, class, sexual preference, and so on, will be analyzed in this context.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 452-3 Social Work/Crisis Intervention Crisis Intervention in Social Work examines the historical development of crisis intervention practice and theory. Several models of crisis intervention are presented with an analysis of their application to particular areas and fields of social work practice. Included in the fields of practice are suicide assessment and intervention, child abuse, spousal assault, physical illness and disability, psychiatric emergency and grief resolution. Analysis and discussion will centre around crisis intervention as it applies to social work practice with minority groups in northern communities. In addition to lecture and discussion material, interview and process skills will be practised in this course.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 453-3 Social Work Practice and Spirituality This course provides a forum for the critical exploration of the impact and influence of religious thought and practices on human service work. The historical roots of this work are based in religious movements, aspects of which still affect today's practice/policy. In an increasingly multicultural environment, students must have a fundamental understanding of religion and spirituality in order to practice effectively.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 454-3 Disability Issues This course involves students in an examination of perspectives on disability, as well as a critical analysis of current theories, policies, and practice. The course begins with an examination of common assumptions about disability and provides opportunities to challenge and critique interpretations of the nature and meaning of disability.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 455-3 First Nations Governance and Social Policy Family values and standards of First Nations form the basis of the study on First Nations policy development and its relationship to self-governance for First Nations Communities. Topics explored include: self-determination from a First Nations perspective, its impact on Canadian Social Policy, along with the necessity to address Child and Family social needs into self-governance and planning. The course focuses on examples within British Columbia communities. Additionally, the course explores the importance of how social work practitioners need to become skilled advocates aimed at influencing policy and laws affecting First Nations and family systems.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 456-3 Family Caring Systems This course develops an understanding of family caring systems from an Aboriginal/First Nations perspective. Topics explored include Aboriginal/First Nations world views, traditional roles of family members, the role that historical events have played in the development and current social realities of First Nations and the role that social workers can play in family wellness. Contemporary Social Work practices with Aboriginal/First Nations children and families are also analyzed and critically reflected upon, with a particular emphasis on future directions in Aboriginal/First Nations child and family welfare.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 457-3 Individual and Community Wellness This course develops an understanding of the role that wellness plays in the life of Aboriginal/First Nations individuals and communities. Topics explored include the definition of healing and wellness, the role that historical events have played in the development and current socio-economic situation of First Nations and the role that social workers can play in the future development of health and wellness of First Nations individuals and communities. As well, the issue of self-care and self-management for First Nations people and the social workers who may work in high stress situations is explored.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 497-3 Reflection on Practice This course is designed for students who are, or plan to be, working in a child welfare setting, The objective is to provide an opportunity to reflect on practice experience. The historical and cultural development of social work practice models is surveyed emphasizing contemporary models such as anti-oppressive practice, constructivism, and feminist practice. Assessment, intervention planning, advocacy, organizing, recording, confidentiality, evaluation, case management, interdisciplinary, and termination are also studied.

SOCW 498-(3-6) Special Topics Special topic courses may be offered from time to time. These courses are available to permit faculty to offer courses in areas that fall within their particular areas of research and expertise in Social Work practice and policy. With permission of the Chair of the School of Social Work, students may repeat the course for credit.

Prerequisites: Upper-division standing or permission of the Social Work Chair

SOCW 499-3 Directed Readings Students can undertake a directed reading course in order to fulfill a particular learning need and area of interest. Directed readings are dependent upon the availability of faculty resources.

Statistics (STAT)

A student may enroll in any STAT course with permission of the Department Chair. Unless otherwise stated, students enrolling in any STAT courses with prerequisites are required to have completed all prerequisite courses for that course with a C- or better, or have permission to enroll from the Department Chair.

STAT 240-3 Basic Statistics This course is an introduction to the basic principles of statistics and procedures for data analysis. Topics include gathering data, displaying and summarizing data, examining relationships between variables, probability models, sampling distributions, estimation and significance tests, inference for means and proportions in one and two sample situations, contingency tables, and simple linear regression. Students register in a computer lab corresponding to their area of interest.

Precluded: MATH 240-3, MATH 242-3, MATH 342-3. Students who have completed MATH 341-3, MATH 371-3 or STAT 371-3 may not take STAT 240-3 for credit

STAT 371-3 Probability and Statistics for Scientists and

Engineers This course is a calculus-based introduction to the theory and application of probability and statistics. Topics covered include concepts of probability, events, populations, probability theorems, the concept of a random variable, continuous and discrete random variables, joint probability distributions, distributions of functions of a random variable, moments, Chebyshev's inequality, the de Moivre-Laplace theorem, the central limit theorem, sampling and statistical estimation theory, hypothesis testing, simple regression analysis, and an introduction to the design of experiments.

Prerequisites: MATH 101-3

Precluded: MATH 340-3 and MATH 341-3 if both taken, MATH 371-3

STAT 372-3 Mathematical Statistics This course introduces the theory of statistical inference. Topics covered from likelihood theory are maximum likelihood estimation, sufficiency, and the likelihood ratio test. Topics covered from frequentist theory are point estimation, unbiasedness, consistency, efficiency, confidence intervals, small sample and large hypothesis tests. Topics covered from Bayesian theory are risk, point estimation and credible intervals.

Prerequisites: MATH 371-3 or STAT 371-3

Precluded: MATH 340-3 and MATH 341-3 if both taken, MATH 372-3

STAT 441-3 Nonparametric Statistics This course discusses the methodology and application of nonparametric statistics. Topics covered include goodness-of-fit tests, contingency tables, empirical distribution function tests, the sign test, the Wilcoxon test, the Wilcoxon-Mann-Whitney test, the Kruskal-Wallis test, and rank correlation.

Prerequisites: One of the following: MATH 240-3, MATH 242-3, MATH 341-3, MATH 342-3, MATH 371-3, ECON 205-3, PSYC 315-4 or STAT 240-3, STAT 371-3

Precluded: MATH 441-3

STAT 471-3 Linear Models This course discusses the estimation of parameters in the multiple linear regression model by the least-squares method. Topics covered include the statistical properties of the least-squares estimators, the Gauss-Markov theorem, estimates of residual and regression sums of squares, distribution theory under normality of the observations, assessment of normality, variance stabilizing transformations, examination of multicollinearity, variable selection methods, logistic regression for a binary response, log-linear models for count data, and generalized linear models.

Prerequisites: One of MATH 150-3 or MATH 220-3; and one of ECON 205-3, MATH 240-3, MATH 371-3, PSYC 315-4, STAT 240-3 or STAT 371-3

Precluded: MATH 671-3, MATH 499-3 Regression

STAT 472-3 Survey Sampling Design and Analysis This course discusses the planning and practice of sample surveys. Topics covered include simple random sampling, unequal probability sampling, stratified sampling, cluster sampling, multistage sampling, costeffective design, analysis and control of sources of sampling and non-sampling error, ratio estimation, model-based regression estimation, resampling, and replication methods.

Prerequisites: One of the following: MATH 240-3, MATH 371-3, ECON 205-3, PSYC 315-4, STAT 240-3, or STAT 371-3

Precluded: MATH 472-3, MATH 499-3 Design of Sample Surveys

STAT 473-3 Experimental Design and Analysis This course discusses experimental designs and analyses. Topics covered include basic principles and guidelines for designing experiments, simple comparative designs, single factor analysis of variance, block designs, factorial designs, response surface methods and designs, nested and split plot designs, and the analysis of covariance.

Prerequisites: One of MATH 150-3 or MATH 220-3; and one of MATH 240-3, MATH 371-3, ECON 205-3, PSYC 315-4, STAT 240-3, or STAT 371-3

Precluded: MATH 473-3, MATH 499-3 Design of Experiments

STAT 475-3 Methods for Multivariate Data This course discusses practical techniques for the analysis of multivariate data. Topics covered include estimation and hypothesis testing for multivariate means and variances; partial, multiple and canonical correlations; principal components analysis and factor analysis for data reduction; multivariate analysis of variance; discriminant analysis for classification; and cluster analysis.

 $\it Prerequisites:$ One of MATH 150-3 or MATH 220-3, and one of MATH 471-3 or STAT 471-3

Precluded: MATH 475-3, MATH 499-3 Applied Multivariate Analysis

STAT 499-(1-3) Special Topics in Statistics The topic for this course varies, depending on student interest and faculty availability. The course may be taken any number of times provided that topics are distinct.

Prerequisites: Permission of instructor

Course Descriptions: STAT, UNIV

STAT 530-(3,6) Undergraduate Thesis This undergraduate thesis allows students to examine and research a topic in the field of statistics. Students must have completed at least 90 credit hours and be a Mathematics major. This thesis may be taken in one or two semesters. STAT 530 is normally taken over two semesters and requires that a student find an Undergraduate Thesis research supervisor. Therefore, students are encourages to apply to potential supervisors well in advance of completing 90 credit hours. This course is taken for a total of 6 credit hours.

Prerequisites: Honours standing and permission of the Instructor and the Department Chair

Precluded: MATH 530-(3,6) Undergraduate Thesis

University (UNIV)

UNIV 101-3 Introduction to Higher Education This course is most appropriate for students who are in their first year of study at a university. It offers an introduction to the university as an institution of higher learning, an explanation of the various methods of inquiry employed therein, and demonstrations of the study skills and learning strategies that are required for academic success. Students will be encouraged and assisted to apply the information presented in this course to other courses that they are completing concurrently.

Prerequisites: None

Women's Studies (WMST)

WMST 100-3 Introduction to Women's Studies A study of past and present women's positions in and contributions to society from a multidisciplinary perspective. Specific topics may include an historical overview of politics, law and the family, productive roles, health and illness, science, culture and philosophy.

Prerequisites: None

WMST 103-3 Introduction to Gender Studies This course explores the ways in which human beings think about structure gender. Topics include ideologies of masculinity and femininity, gender and psychology, gendered language, the relationship between gender and sexuality, and gender in popular culture and media.

Prerequisites: None

WMST 209-3 Gender and Cultural Studies: An Introduction This course introduces students to questions of gender, media representation, and technology. Students examine the construction of femininity and masculinity in such visual technologies as advertising, video, television, and film.

Prerequisites: None

WMST 211-3 Feminist Critical Thought This course introduces students to the philosophical, cultural, and political foundations in feminist critical thought.

Prerequisites: None

WMST 220-3 Gender and Literary Theory This course provides an introduction to critical analyses of gender and their implications for literature. Students gain an overview of some current topics in gender theory and apply these to contemporary texts.

Precluded: ENGL 200-3 (This is the same course as WMST 220-3)

WMST 221-3 Women and Literature: A Survey This course is a survey of works of poetry and fiction written by women in English from the Renaissance to the present. The course considers feminist theory and criticism in relation to these works.

Precluded: ENGL 210-3 (This is the same course as WMST 221-3)

WMST 302-3 Women and the Contemporary World This course examines the role of women in contemporary world through a comparative examination of different societies. Topics to be addressed will include such issues as legal status, health, family, work, sexuality and violence.

Prerequisites: WMST 100-3 Precluded: WMST 212-3 WMST 303-3 Lesbian and Bisexual Lives This course introduces students to lesbian and bisexual women studies from an historical perspective as well as focusing on contemporary contexts and issues. Students will study the diversity of political perspectives among lesbian and bisexual women and how sexuality intersects with race, class, ability and cultural differences.

Prerequisites: None

WMST 304-3 Contemporary Women's Writing in an International Frame This course covers a range of contemporary women writers in an international context. Writers will be examined in relation to developments in the women's movement and in light of recent feminist literary theoretical insights into narrative, genre, and representation.

Prerequisites: None

WMST 306-3 Indigenous Women: Perspectives The purpose of this course is twofold: first to understand how Indigenous women's lives have been shaped by colonialism and secondly, to delineate the global themes in indigenous women's current political and social struggles to transcend the colonial legacy that continues to constrain them.

Prerequisites: FNST 100-3 or WMST 100-3 or permission of the instructor

Precluded: FNST 306-3 and WMST 310-3

WMST 307-3 Qualitative Research Methods This course introduces students to a variety of research practices, including oral history, interviews, case studies, archival and library research, survey/content analysis, and field work.

Prerequisites: WMST 100-3 or permission of the instructor Precluded: WMST 210-3

WMST 309-3 Gender and Film This course addresses the construction of gender in films that focus explicitly on the question of gender in relation to class, race, sexuality, ethnicity, colonialism and nationalism. Note: students who have completed WMST 206-3 prior to the 1996-97 academic year, may not take this course for credit.

Prerequisites: WMST 209-3, or permission of instructor

WMST 311-3 History of Feminism This course surveys the history of those various political, social and cultural movements, e.g. suffragism, women's liberation, etc., which have combined to create the phenomenon of feminism. Attention is also devoted to the diverse theories, ideas and values that underpin contemporary feminism.

Prerequisites: WMST 100-3 or permission of instructor *Precluded:* HIST 311-3

WMST 312-3 An Introduction to the History of Gender This course explores issues of gender in historical context using a case study approach.

Precluded: HIST 270-3, WMST 270-3, HIST 310-3, and HIST 312-3

WMST 401-3 Cultural Studies: Gender, Race and Represent-

ation This course explores the visual expression of women artists, photographers, fashion designers and film makers while also examining feminist critical responses to these visual forms of expression.

Prerequisites: WMST 209-3 or permission of the instructor

WMST 409-3 Advanced Feminist Social Science Methodology

The goal of this course is twofold: first to cover current debates in feminist methodology and second to develop appropriate research strategies for an independent research project.

Prerequisites: WMST 311-3 or permission of the instructor

WMST 410-3 Feminist Political Philosophy This course provides an analysis and critique of both the historical and contemporary literature on feminist political philosophy from its enlightenment roots to its contemporary post-modernist critique on enlightenment notions of rationality.

Prerequisites: Upper-division standing and permission of the instructor

WMST 411-3 Contemporary Feminist Theories This course examines various themes and debates in recent feminist theories from an interdisciplinary perspective. Topics will vary from year to year.

Prerequisites: WMST 311-3 or permission of instructor

WMST 413-(3-6) Topics in Aboriginal Women's Studies This course explores topics relating to aboriginal women's studies in both Canadian and international contexts. Topics may vary from year to year. This course may be repeated for credit (maximum six credit hours).

Prerequisites: WMST 100-3 or FNST 100 and permission of instructor

WMST 420-3 Contemporary Women's Literature This course considers contemporary women writers and their work, emphasizing their cultural diversity and considering them in the context of feminist theory. Writers may include: Nadine Gordimer, Joy Kogawa, Amy Tan and Louise Erdrich.

Prerequisites: Two lower-division English Courses excluding ENGL 170-3 or 45 credit hours or permission of instructor Precluded: ENGL 410-3 (This is the same course as WMST 420-3)

WMST 498-(3-6) Selected Topics in Women's Studies The course examines in detail topics selected by the instructor. This course may be repeated for maximum of 6 credit hours.

Prerequisites: Permission of the instructor

WMST 499-3 Independent Study in Women's Studies This course enables students to read in depth in an area of women's studies not normally covered by established principal or ancillary courses in the Women's Studies program.

Prerequisites: Permission of the Program Chair

Index

A	Outdoor Recreation and Tourism Management (ORTM) 283
Academic Breadth Requirement 59	Philosophy (PHIL) 285
•	Physics (PHYS) 286
C	Political Science (POLS) 288
Contificato	Psychology (PSYC) 292
Certificate	Social Work (SOCW) 295
Aboriginal Community Resource Planning 135	Statistics (STAT) 300
Aboriginal / Indigenous Health and Healing 135	University (UNIV) 301
First Nations Language 136 First Nations Public Administration 136	Women's Studies (WMST) 302
General First Nations Studies 137	D
Métis Studies 137	D
Nisga'a Studies 137	Diploma
Public Administration Certificate Program 190	Aboriginal / Indigenous Health and Healing 134
Rural Nursing Certificate Program 179	Education Diploma in a First Nations Language and
Traditional Ecological Knowledge 138	Culture (Elementary Years) 102
College	First Nations Language 134
College of Arts, Social and Health Sciences 57	Post-Baccalaureate Diploma (Curriculum & Instruc-
College of Science and Management 58	tional Studies and Montessori Education) 105
Course Descriptions	
Anthropology (ANTH) 200	Н
Arts (ARTS) 205	Honours
Astronomy (ASTR) 205	BA
Biochemistry and Molecular Biology (BCMB) 206	Anthropology 65
Biology (BIOL) 207	History 155
Chemistry (CHEM) 210	Nature-Based Tourism Management 171
Commerce (COMM) 213	BComm
Computer Science (CPSC) 219	BComm Honours 75
Economics (ECON) 224	BHSc
Education (EDUC) 227	Health Sciences Honours 153
Engineering (ENGR) 238	BSc
English (ENGL) 234	Biochemistry and Molecular Biology 69
Environmental Science and Engineering (ENSC) 241	Biology 72
Environmental Studies (ENVS) 244	Computer Science 89
First Nations Studies (FNST) 245	Environmental Science 121
Forest Ecology and Management (FSTY) 253	Forest Ecology and Management 163
Geography (GEOG) 254	Mathematics 159
Health Sciences (HHSC) 257	Outdoor Recreation and Conservation 165
History (HIST) 259	Physics 183
Integrated Analytical Skills & Knowledge (IASK) 264	Psychology 189
International Exchange (INTX) 265	Wildlife and Fisheries 166
International Studies (INTS) 265	T
Mathematics (MATH) 271	J
National Outdoor Leadership School (NOLS) 274	Joint Majors
Natural Resources and Environmental Studies (NRES)	Anthropology and Geography (BA) 65
274	Chemistry/Computer Science 85
Natural Resources Management (NREM) 275	Chemistry/Mathematics 86
Northern Studies (NORS) 276	Chemistry/Physics 86
Nursing (NURS) 277	Computer Science/Mathematics 89

Computer Science/Physics 90	Communities and Environmental Citizenship 125
Economics/Global and International Studies 93	First Nations 126
Economics/Mathematics 94	Global Environmental Studies 125
Economics/Political Science 93	Natural Resource Management 125
English and Environmental Studies 108	Science, Technology, and Society 125
English/History 109	Okanagan Diploma in Environmental Studies De-
English/Political Science 110	gree Completion 126
English/Women's Studies 110	Finance 77
Environmental Studies and Political Science 127	First Nations Planning 117
First Nations Studies/Women's Studies 132	First Nations Studies 131
Global and International Studies/Political Science 148	Forest Ecology and Management 162
History/Political Science 155	General Business 78
History/Women's Studies 156	Geography (BA) 139
Mathematics/Physics 160	Geography (BSc) 142
Political Science/Women's Studies 186	Global and International Studies 146
M	Human Resources Management 79
171	International Business 80
Majors	Marketing 81
Accounting 76	Mathematics 158
Anthropology 64	Natural Resources Planning 118
Biochemistry and Molecular Biology 68	Nature-Based Tourism Management 169
Biology 71	Area of Specialization
Biomedical Studies 151	Environment and Society 170
BSc (Integrated) 62	Indigenous/Cultural Tourism 170
Area of Specialization	Marketing and Entrepreneurship 170
Biology, Ecology, and Biochemistry & Molecular	Outdoor Education and Leadership 170
Biology 62	Northern and Rural Community Planning 116
Chemistry, Biochemistry & Molecular Biology 62	Northern Studies 172
Computer Science 62	Nursing
Environmental and Earth Sciences 62	Northern Collaborative Baccalaureate Nursing
Geography (Science) and GIS 63	Program 177
Mathematics & Statistics 63	Post-Diploma Baccalaureate Nursing Program 179
Natural Resources and Forestry 63	Outdoor Recreation and Conservation 163
Physics 63	Physics 183
Northwest Community College Degree Completion	Political Science 185
Program 63	Psychology 188
Chemistry 83	Public Administration and Community Development
Community and Population Health – Aboriginal and	140
Rural Health 152	Area of Specialization
Community and Population Health - Environmental	Aboriginal Community Development 142
Health 152	Local Public Administration 141
Computer Science 88	Planning 142
Economics 92	Wildlife and Fisheries 166
Education	Women's Studies 196
Elementary (Grades K-7) 96	
Entry Route Via a UNBC Education Diploma in a	
First Nations Language and Culture 98	
Secondary (Grades 8-12) 98	
English 107	
Environmental Engineering 112	
Environmental Science 120	
Environmental Studies 124	
Area of Specialization	

Minors	P
Anthropology	
Archaeological Anthropology 66	Programs
Biological Anthropology 66	Anthropology (BA Program) 64
General Anthropology 67	Bachelor of Fine Arts (Fine Arts and Creative Writing)
Sociocultural Anthropology 67	(BFA Program) 129
Aquatic Science 121	BA (General) 60, 61
Atmospheric Science 122	BSc (Integrated) 62
Biochemistry and Molecular Biology 70	Chemistry (BSc Program) 83
Biology 73	Computer Science (BSc Program) 88
Biology and Conservation 73	Co-operative Education 49
Chemistry 87	Economics (BA and BSc Programs) 92
Computing 91	English (BA Program) 107
Earth Sciences 167	Environmental Engineering (BASc Program) 112
Economics 95	Environmental Programs (BASc, BA, and BSc Pro-
English 111	grams) 112
Environmental Science 122	Environmental Science (BSc Program) 120
Environmental Studies 128	Environmental Studies (BA Program) 124
First Nations Studies 133	First Nations Studies (BA Program) 131
Forest Recreation 167	Geography (BA and BSc Programs) 139
General Business 82	Geography Program (BA 139
Geomorphology 144	Geography Program (BSc) 142
GIS (Geographic Information Systems) 144	Health Sciences (BHSc Program) 146
Global Environmental Change 128	Integrated Analytical Skills & Knowledge Program
History 156	157
Human Geography 145	Integrated Analytical Skills & Knowledge Program
Indigenous Ecological Knowledge 133	(IASK) 51
International Development Studies 95	International Exchange Program 51
Management Information Systems 82	Mathematics and Statistics (BSc Program) 158
Mathematics 160	Natural Resources Management (BSc Program) 162
Natural Resources Planning and Operations 167	Nature-Based Tourism Management (BA Program)
Northern Studies 173	169
Outdoor Recreation and Tourism Management 171	Northern Advancement Program 53
Philosophy 182	Northern Studies (BA Program) 172
Physical Geography 145	Outdoor Recreation and Tourism Management Pro-
Physics 184	gram 181
Planning 119	Philosophy 182
Political Science 187	Physics (BSc Program) 183
Psychology 189	Political Science (BA Program) 185
Russian Studies 191	Psychology (BSc Program) 188
Social Dimensions of Natural Resources Management	Public Administration Certificate Program 190
168	Russian Studies 191
Soils and the Environment 123	School of Business (BComm Program) 74
Statistics 161	School of Education (BEd Program) 96
Women's Studies 197	School of Environmental Planning (BPl) 115
	School of Nursing (BScN Program) 174
	Social Work (BSW Program) 192
	Social Work (Post Baccalaureate Certificates) 192
	Student Success Initiative 54
	Women's Studies (BA Program) 196