



2020 – 2021 Graduate Calendar

**Effective date of information, unless otherwise noted:
July 1, 2020.**

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The 2020-2021 *University of Northern British Columbia Graduate Calendar* was prepared by the Office of the Registrar.

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Faculty

- Abadzadesahraei, Sina, Adjunct Professor, Ecosystem Science and Management—BSc (Azad) MSc (Algarve) PhD (Northern British Columbia)
- Ali, Faran, Assistant Professor, Natural Resources and Environmental Studies (Geography)—BSc (JET Lahore) MSc (IHE Delft) PhD (Saskatchewan)
- Albers, Sam, Adjunct Professor, Natural Resources and Environmental Studies (Geography)—BSc (Victoria) MSc (Northern British Columbia)
- Allison, Sandra, Adjunct Professor, Health Sciences—BSc (Calgary) MD MPH (Manitoba)
- Anderson, Margaret, Professor Emerita, First Nations Studies—BA MA PhD (Michigan)
- Andrews, Nathan, Assistant Professor, International Studies—BA (Ghana) MA (Brock) PhD (Alberta)
- Anguish, Penny, Adjunct Professor, Nursing—BScN MScN (Victoria)
- Aravind, Alex, Professor, Mathematical, Computer, Physical and Molecular Sciences (Computer Science)—BSc, MSc (India) MTech (Indian Institute of Technology) PhD (Indian Institute of Science)
- Babicz, Walter, Adjunct Professor, Political Science—BEd (British Columbia) Juris Doctor (Victoria)
- Banner-Lukaris, Davina, Associate Professor, Nursing—BSN (Wales) PhD (West England)
- Barton, Sylvia, Associate Professor, Nursing—BScN (British Columbia) MSc (N) (Portland) PhD (Alberta)
- Beaumont, Sherry, Professor, Gender Studies and Psychology—BA Hons (St. Thomas) MA PhD (Waterloo)
- Beaveridge, Jennifer, Adjunct Professor, Nursing—BScN (Victoria) MSN (British Columbia)
- Beedle, Matthew, Adjunct Professor, Natural Resources and Environmental Studies (Geography)—BSc (Montana State) MA (Colorado) PhD (Northern British Columbia)
- Beeler, Karin, Professor, English, Gender Studies—BA Hons (British Columbia) MA PhD (Alberta)
- Beeler, Stan, Professor Emeritus, English—BA Hons MA (Dalhousie) PhD (Alberta)
- Bellefeuille, Gerard, Adjunct Professor, Social Work—BSW MA PhD (Victoria)
- Bhullar, Amarjit, Assistant Professor, Development 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, Health Sciences—BSc (Waterloo) MSc PhD (Guelph)
- Bleiker, Katherine, Adjunct Professor, Natural Resources and Environmental Studies—BSc (Victoria) MSc (Northern British Columbia) PhD (Montana)
- Bogdanski, Bryan, Adjunct Professor, Development Economics, Natural Resources and Environmental Studies—BA (Queen's) MA (Simon Fraser) PhD (British Columbia)
- Booth, Annie, Professor, Gender Studies and Natural Resources and Environmental Studies—BA (Victoria) MES Arts and Planning (York) PhD (Wisconsin) MCIP
- Bouchard, Michel, Professor, Anthropology and Interdisciplinary Studies—BA (Toronto) MA (Laval) PhD (Alberta)
- Bourque, Helen, Adjunct Professor, Nursing—BScN (Dalhousie) MScN FNP (Northern British Columbia)
- Bowles, Paul, Professor, Business Administration, Development Economics, International Studies—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)
- Burton, Carla, Adjunct Professor, Natural Resources and Environmental Studies—BEd (British Columbia) MSc PhD (Victoria)
- Burton, Philip, Professor, Natural Resources and Environmental Studies—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, Natural Resources and Environmental Studies—BSc Hons (Queen's) MSc PhD (British Columbia)
- Callaghan, Russell, Professor, Northern Medical Program and Adjunct Professor, Health Sciences—BA MA (British Columbia) PhD (Toronto)
- Casas Aguilar, Anna, Adjunct Professor, International Studies—BA (Barcelona) MA PhD (Toronto)
- Casperson, David, Associate Professor, Mathematical, Computer Physical, and Molecular Sciences (Computer Science, Mathematics)—BSc Hons (Simon Fraser) MA PhD (Waterloo)
- Chen, Jing, Assistant Professor, Business Administration—BSc (Shanghai) MS (Beijing) PhD (Michigan)
- Chen, Liang, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Computer Science)—BSc (Huazhong) PhD (Institute of Software, Academia Sinica)
- Chng, Nicholas, Adjunct Professor, Mathematical, Computer, Physical and Molecular Sciences (Physics)—BSc MSc (Queens) PhD (British Columbia)

Faculty

- Choi, Sungchul, Associate Professor, Business Administration—BBA MBA (Pusan) PhD (Alberta)
- Chun, Wootae, Assistant Professor, Business—BSc (Ohio) MBA (Texas) PhD (Saint Louis)
- Clements, Gerrit, Adjunct Professor, Nursing—BA (Calgary) LLB (Alberta)
- Chimenhage, James, Adjunct Professor, Psychology—BA MA PhD (Simon Fraser)
- Colbourne, Rick, Adjunct Professor, Business Administration—PhD (Cambridge)
- Connell, David J., Associate Professor, Natural Resources and Environmental Studies—BA (Toronto) BComm MBA (Windsor) PhD (Guelph)
- Costello, Bridget Meghan, Senior Lab Instructor, Mathematical, Computer, Physical and Molecular Sciences (Physics)—BSc Hons (Victoria) MSc (Calgary)
- Cousineau, Stephanie, Adjunct Professor, History—BA Hons (Calgary) MA (New Brunswick) PhD (Calgary)
- Coxson, Darwyn, Professor, Natural Resources and Environmental Studies—BSc (Lethbridge) PhD (McMaster)
- Cronshaw, Steven, Professor Emeritus, Business Administration and Psychology—BA BComm (Saskatchewan) MA PhD (Akron)
- Crowley, Shannon, Adjunct Professor, Ecosystem Science and Management—BSc (Alaska Southeast) MSc (Northern British Columbia)
- Cuthbertson, Mike, Lecturer, Business—BComm (British Columbia) CA
- Dale, Mark, Professor, Natural Resources and Environmental Studies—BSc MSc (Toronto) PhD (Dalhousie)
- Dawson, Russell, Professor, Natural Resources and Environmental Studies—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 Battaglia) PhD (Camerino)
- de Leeuw, Sarah, Associate Professor, Northern Medical Program, Health Sciences and Adjunct Professor, Natural Resources and Environmental Studies (Geography)—BA (Victoria) MA (Northern British Columbia) PhD (Queen's)
- Deo, Balbinder, Associate Professor, Business Administration, Natural Resources and Environmental Studies—BSc MSc (Armritsar) MBA (Shimla) PhD (Ludhiana and Manitoba)
- Déry, Stephen, Professor, Natural Resources and Environmental Studies—BSc MSc (York) PhD (McGill)
- DeWiel, Boris, Associate Professor, Political Science—BA (Athabasca) MA PhD (Calgary)
- Dickson, Lisa, Associate Professor, English, Gender Studies—BA (Guelph) PhD (McMaster)
- Dobrowolski, Edward, Assistant Professor, Mathematical, Computer, Physical, and Molecular Sciences (Mathematics)—MS PhD (Wroclaw)
- Duschesne, 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)
- Elkin, Ché, Associate Professor, Natural Resources and Environmental Studies—BSc (Regina) MSc (Toronto) PhD (Calgary)
- Evanson, Celia, Adjunct Professor, Nursing—BScN MScN (Victoria)
- Fisher, Daniela, Adjunct Professor, Natural Resources and Environmental Studies (Environmental Planning)—BSc Hons (Victoria) LLB (British Columbia)
- Fondahl, Gail, Professor, Gender Studies and Natural Resources and Environmental Studies—BA (Dartmouth College) MA PhD (California, Berkeley)
- Fraser, Tina, Associate Professor, Education and Adjunct Professor, First Nations Studies and Nursing—MEd (Simon Fraser) PhD (British Columbia)
- Fredeen, Arthur, Professor, Natural Resources and Environmental Studies—BSA Hons (Saskatchewan) PhD (California, Berkeley)
- Fredj, Karima, Associate Professor, Development Economics and International Studies—BA (Tunisia) MSc (Montreal) PhD (McGill)
- Freeman, Shannon, Assistant Professor, Nursing and Adjunct Professor, Health Sciences—BA Hons (McMaster) MSc (Tohoku University Graduate School of Medicine) PhD (Waterloo)
- Freylejer, Leandro, Assistant Professor, Economics—BA (Manitoba) MA (Queen's) PhD (Toronto)
- Fu, Chengbo, Assistant Professor, Business—BA (Dongbei) MSc (Clemson) PhD (Manitoba)
- Furber, Kendra, Assistant Professor, Northern Medical Program—BSc Honours (Saskatchewan) PhD (Calgary)
- Gantner, Nikolaus, Adjunct Professor, Natural Resources and Environmental Studies (Environmental Science)—MSc (Innsbruck) PhD (Guelph)
- Ge, Xin, Associate Professor, Business Administration—BA MA (Nanjing) PhD (Alberta)
- Geertsema, Marten, Adjunct Professor, Natural Resources and Environmental Studies—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 PhD (British Columbia)
- Gerwing, Travis, Adjunct Professor, Natural Resources and Environmental Studies—BSc MSc (Northern British Columbia) PhD (New Brunswick)
- Gibson, Erin, Adjunct Professor, Anthropology (Interdisciplinary Studies)—BA (Simon Fraser) MPhil PhD (Glasgow)
- Gillingham, Michael, Professor Emeritus, Natural Resources and Environmental Studies—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, Mathematical, Computer, Physical, and Molecular Sciences (Biochemistry, 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, Natural Resources and Environmental Studies—BHMED (British Columbia) BSc (Oregon)
- Graveline, Fyre Jean, Professor, First Nations Studies—BSW (Calgary) MSW (Manitoba) PhD (Wilfrid Laurier)
- Gray, Sarah, Associate Professor and Canada Research Chair, Integrative Physiology of Diabetes, Mathematical, Computer, Physical, and Molecular Sciences (Biochemistry, Chemistry), Northern Medical Program—BSc PhD (Victoria)
- Green, Scott, Associate Professor, Natural Resources and Environmental Studies—AAS (New York) BA (Moody, Chicago) PhD (Wisconsin)
- Greenwood, Margo, Professor and Academic Leader NCCAH, Education, First Nations Studies, and Adjunct Professor, Northern Medical Program—BEd (Alberta) MA (Victoria) PhD (British Columbia)
- Gregory, Monica, Adjunct Professor, Nursing—BScN (Alberta) BSc MScN (British Columbia)
- Groulx, Mark, Assistant Professor, Natural Resources and Environmental Studies (Environmental Planning)—BSc Hons (Lakehead) MA PhD (Waterloo)
- Guest, Kristen, Professor, English and Gender Studies—BA MA (Western) PhD (Toronto)
- Gunn, Kelly, Adjunct Professor, Nursing—BSc (Victoria) MBA (Northern British Columbia)
- Haeussler, Sybille, Adjunct Professor, Natural Resources and Environmental Studies—BSF Hons (British Columbia) MSc (Oregon State) PhD Hons (Quebec)
- Halseth, Greg, Professor and Canada Research Chair, Rural and Small Town Studies, Natural Resources and Environmental Studies—BA (British Columbia) MA PhD (Queen's)
- Hamieh, Alia, Assistant Professor, Mathematics—BSc Msc (Beirut) PhD (British Columbia)
- Hanlon, Neil, Professor, Health Sciences, Natural Resources and Environmental Studies—BA (Ryerson) MA PhD (Queen's)
- Haque, Waqar, Professor, Business Administration and Mathematical, Computer, Physical, and Molecular Sciences (Computer Science)—BSc Hons (Pakistan) MSc (Alberta) MSc PhD (Iowa State)
- Harris, Luke, Associate Professor, Health Sciences—BSc Hons (Acadia) PhD (Alberta)
- Harrison, Edward, Assistant Professor, Education—BEd MEd (British Columbia) PhD (Alberta)
- Hartley, Ian, Professor, Mathematical, Computer, Physical and Molecular Sciences (Physics), Natural Resources and Environmental Studies—BSc MScF (New Brunswick) PhD (British Columbia)
- Healy, Theresa, Adjunct Professor, Gender Studies and Natural Resources and Environmental Studies (Environmental Planning)—BA MA (Saskatchewan) PhD (Simon Fraser)
- Heard, Doug, Adjunct Professor, Natural Resources and Environmental Studies—BSc (Waterloo) MSc (British Columbia)
- Helle, Steve, Associate Professor, Natural Resources and Environmental Studies—BEng MEng (McGill) PhD (British Columbia)
- Hemingway, Dawn, Associate Professor, Gender Studies, Health Sciences, and Social Work—BA (Simon Fraser) MSc MSW (Northern British Columbia)
- Henderson, Earl, Adjunct Professor, First Nations Studies—BA MA (Northern British Columbia)
- Hirt, Andreas, Adjunct Professor, Mathematical, Computer, Physical and Molecular Sciences (Computer Science)—BSc (Northern British Columbia) MSc PhD (Calgary)
- Hodder, Dexter, Adjunct Professor, Ecosystem Science and Management—BSc (Memorial) MSc (Thompson Rivers)
- Hoffman, Ross, Professor, First Nations Studies—BA Hons (Trent) BEd (Toronto) MEd (Victoria) PhD (Trent)
- Holler, Jacqueline, Associate Professor, Gender Studies, History, International 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, Assistant Professor, Environmental Planning—BSc (DeVry) MNRES (Northern British Columbia) PhD (British Columbia)
- Huber, Dezene, Professor, Natural Resources and Environmental Studies—BSc (Calgary) PhD (Simon Fraser)
- Hussein, Ahmed, Professor Emeritus, Mathematical, Computer, Physical, and Molecular Sciences (Physics)—BSc (Alexandria) MSc PhD (Alberta)
- Hutchings, Kevin, Professor, English—BA (Guelph) MA (McMaster) PhD (Hamilton)
- Hyndman, Jennifer—BMath (Waterloo) MA PhD (Colorado)
- Iqbal, Asif, Assistant Professor, Integrated Wood Engineering and Design—BSc MSc (Bangladesh) PhD (Cambridge)
- Irving, Lauren, Adjunct Professor, Nursing—BScN (Northern British Columbia) MNP (British Columbia)
- Jackson, Peter, Professor, Natural Resources and Environmental Studies—BSc Hons PhD (British Columbia)

Faculty

- Jago, Charles, Professor Emeritus—BA Hons (Western Ontario) PhD (Cambridge)
- Jensen, Erik, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Chemistry, Physics)—BSc Hons (Victoria) PhD (Cambridge)
- Jiang, Fan (Terry), Assistant Professor, Computer Science—BSc MSc PhD (Manitoba)
- Johnson, Christopher, Professor, Natural Resources and Environmental Studies—BSc (Victoria) MSc PhD (Northern British Columbia)
- Jokinen, Nancy, Associate Professor, Social Work—MSW (Lakehead) PhD (Calgary)
- Jull, Michael, Adjunct Professor, Natural Resources and Environmental Studies—BSF MSc (British Columbia)
- Kabzems, Richard, Adjunct Professor, Ecosystem Science and Management—BSA Hons BSc (Saskatchewan) MSc (British Columbia)
- Kaminska, Malgorzata, Assistant Professor, Northern Medical Program—BSc Hons (Ottawa) MD (Toronto) MSC (London UK)
- Kazemian, Hossein, Adjunct Professor, Mathematical, Computer, Physical and Molecular Sciences—BSc MSc PhD (State University of Isfahan)
- Keen, Kevin, Professor, Business Administration, Mathematical, Computer, Physical, and Molecular Sciences (Mathematics)—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—Cert. in Leadership and Conflict Resolution (JIBC), BEd (UVIC), MEd (UVIC), PhD (JCU - cum laude)
- Klassen-Ross, Tammy, Adjunct Professor, Psychology—BA (British Columbia) MSc PhD (Northern British Columbia)
- Klepitar, Amy, Assistant Professor, Nursing—BA (Dartmouth) BScN (Johns Hopkins) MSc (Utah) RN
- Korkmaz, Elie, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Physics)—BSc (Lebanese) MSc PhD (Indiana)
- Krehbiel, Richard, Adjunct Professor, Natural Resources and Environmental Studies (Environmental Planning)—Juris Doctor (Saskatchewan)
- Kumar, Pranesh, Professor, Business Administration, Mathematical, Computer, Physical, and Molecular Sciences (Mathematics)—MSc PhD (Indian Agricultural Research Institute)
- 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, Natural Resources and Environmental Studies (Environmental Engineering)—BEng MEng (McGill) PhD (British Columbia)
- Lautensach, Alexander, Associate Professor, Education—BEd (Toronto) MSc (Guelph) MScT (McMaster) PhD (Otago)
- Lavallee, Loraine, Assistant Professor, Natural Resources and Environmental Studies, Psychology—BA MA PhD (British Columbia)
- Lavoie, Josée, Adjunct Professor, Disability Management, Health Sciences—BSc MA (McGill) PhD (London)
- Lazenby, Richard, Professor Emeritus, Anthropology (Interdisciplinary Studies) and Adjunct Professor, Northern Medical Program—BA MA (Simon Fraser) PhD (McMaster)
- Lee, Chow H., Professor, Mathematical, Computer, Physical, and Molecular Sciences (Biochemistry, Chemistry)—BSc Hons (New South Wales) PhD (Flinders)
- Lettinga, Virginia, Adjunct Professor, History—BA (Calvin College) MA (Northwestern)
- Lewis, Kathy, Professor, Natural Resources and Environmental Studies—BSF (British Columbia) MS (Virginia Polytechnic and State) PhD (Oregon State)
- Li, Han, Professor, Health Sciences and Psychology—BEd Hons (Hua-Zhong NU) MPH (North Carolina) MA PhD (Victoria)
- Li, Jianbing, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Chemistry), Natural Resources and Environmental Studies—BASc MSc (Wuhan) PhD (Regina)
- Lindgren, B. Staffan, Professor Emeritus, Natural Resources and Environmental Studies—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
- MacPhail, Fiona, Professor, Gender Studies and Chair, Development Economics, and Co-chair International Studies—BA Hons MA (Guelph) MA (Sussex) PhD (Dalhousie)
- Madak, Paul, Adjunct Professor, Psychology—BA (St. Bonaventure) MA PhD (Manitoba)
- Maher, Patrick, Adjunct Professor, Natural Resources and Environmental Studies—BA Hons (Lakehead) PhD (Lincoln)
- Mandy, Margot, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Chemistry, Physics)—BSc Hons (Acadia) MSc PhD (Toronto)
- Margolin, Indrani, Associate Professor, Social Work—BA Hons (Guelph) MSW (Wilfrid Laurier) PhD (Toronto)
- Markey, Sean, Adjunct Professor, Natural Resources and Environmental Studies (Geography)—BA (British Columbia) MA (York) PhD (Simon Fraser)
- Martel, Gordon, Professor Emeritus—BA Hons (Simon Fraser) MA (Tufts and Harvard) PhD (Toronto)

- Martins, Eduardo, Assistant Professor, Ecosystem Science and Management (Biology)—BSc MSc PhD (Campinas)
- Massicotte, Hugues, Professor, Natural Resources and Environmental Studies—BScA (Laval) MSc PhD (Guelph)
- Matheson, Heath, Assistant Professor, Psychology—BA Hons (Winnipeg) MSc PhD (Dalhousie)
- Mattfeld, Monica, Assistant Professor, English and Adjunct Professor, History—BA (Cariboo) MA (British Columbia) PhD (Kent)
- Matthews, Quinn, Adjunct Professor, Mathematical, Computer, Physical and Molecular Sciences (Physics)—BSc MSc PhD (Victoria)
- McDonald, Verna Lynn, Associate Professor, Education—BA (Alberta) MEd (British Columbia) MA EdD (US International San Diego)
- McGill, William, Professor, Natural Resources and Environmental Studies—BSA Hons MSc (Manitoba) PhD (Saskatchewan)
- Meletis, Zoë, Associate Professor, Natural Resources and Environmental Studies—BA (McGill) MScPI (Toronto) PhD (Duke)
- Menounos, Brian, Professor, and Canada Research Chair Glacier Change, Natural Resources and Environmental Studies—BA MA (Colorado) PhD (British Columbia)
- Messenger, 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)
- Milburn, Daniel, Adjunct Professor, Natural Resources and Environmental Studies (Environmental Planning)—BSc (Northern British Columbia) MCIP RPP
- Mills, Antonia, Professor Emerita, First Nations Studies, Gender Studies, Interdisciplinary Studies—BA Hons PhD (Harvard)
- Mitchell, Sheona, Adjunct Professor, Health Sciences—BSc MD (Calgary) MPH (Johns Hopkins) FRCSC (British Columbia)
- Moghimehfar, Frahad, Assistant Professor, Natural Resources and Environmental Studies—BSc (Azad, Iran) MSc (Allameh Tabataba'i, Iran) PhD (Alberta)
- Monu, Kafui, Assistant Professor, Business Administration—BComm Hons (Manitoba) MSc PhD (British Columbia)
- Morris, Marleen, Adjunct Professor, Natural Resources and Environmental Studies (Geography)—BA (British Columbia) MSc (HEC Paris/Oxford)
- Morrison, William, Professor Emeritus, History—BA Hons MA (McMaster) PhD (Western)
- Mullins, Philip, Associate Professor, Natural Resources and Environmental Studies (Outdoor, Recreation, Conservation and Tourism)—BA (Lakehead) MA (Alberta)
- Murphy, Michael, Professor, Natural Resources and Environmental Studies, Political Science—BA MA (Western Ontario) PhD (McGill)
- Murray, Brent, Associate Professor, Natural Resources and Environmental Studies—BSc MSc (Alberta) PhD (McMaster)
- Nawaz, Shamaila, Assistant Professor, Development Economics—BA (Punjab) MA (International Islamic University) MS PhD (Mediterranee Aix-Marseille)
- Nolin, Catherine, Associate Professor, Gender Studies, Natural Resources and Environmental Studies—BA (Calgary) MA PhD (Queen's)
- Nyce, Deanna, Adjunct Professor, First Nations—BEd MEd (British Columbia)
- O'Neill, Linda, Associate Professor, Education—BA MEd (Victoria) PhD (Victoria)
- Opio, Chris, Professor, International Studies, Natural Resources and Environmental Studies—BScF (New Brunswick) MEdes (Calgary) PhD (Alberta)
- Otter, Ken A., Professor, Natural Resources and Environmental Studies—BSc (British Columbia) MSc PhD (Queen's)
- Owen, William, Associate Professor, Psychology—BSc Hons (Augustana) MA PhD (Saskatchewan)
- Owens, Philip, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology, Natural Resources and Environmental Studies—BSc (Coventry) MSc (British Columbia) PhD (Exeter)
- Parisien, Marc-André, Adjunct Professor, Ecosystem Science and Management—BSc (McGill) MSc (Québec à Rimouski) PhD (California, Berkeley)
- Parker, Katherine, Professor Emerita, and Ian McTaggart Cowan Muskwa Kechika Research Professor, Natural Resources and Environmental Studies—BA MA PhD (Washington State)
- Parkes, Margot, Associate Professor and Canada Research Chair in Community Health/Environmental Health/Rural, Remote, Aboriginal and Northern Health Health Sciences, Natural Resources and Environmental Studies—MBChB (Otago) MAS (Brussel) PhD (Otago)
- Parshotam, Umesh, Adjunct Professor, Northern Medical Program—BSc (Texas) PhD (Western)
- Pawlowska-Mainville, Agnieszka, Assistant Professor, First Nations—BA (McGill) MA PhD (Manitoba)
- Payne, Geoffrey, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Biochemistry) and 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 (New Calendonia) BSc (Northern British Columbia)
- Peters, Heather, Associate Professor, Social Work—BA (Saskatchewan) BSW (British Columbia) MSW (Carleton) PhD (British Columbia)

Faculty

- Petticrew, Ellen, Professor and Forest Renewal BC Endowed Chair in Landscape Ecology, Natural Resources and Environmental Studies—BSc Hons (Queen's) MSc (British Columbia) PhD (McGill)
- Picketts, Ian, Adjunct Professor, Natural Resources and Environmental Studies—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, Mathematical, Computer, Physical, and Molecular Sciences (Chemistry)—BSc (Quebec) MSc PhD (Manitoba)
- Poirier, Lisa, Associate Professor, Natural Resources and Environmental Studies—BSc (Guelph) MPM PhD (Simon Fraser)
- Polajnar, Desanka, Adjunct Professor, Mathematical, Computer, Physical, and Molecular Sciences (Computer Science)—BSc (Belgrade) MSc (Southern California) PhD (Kragujevac)
- Polajnar, Jernej, Associate Professor, Mathematical, Computer, Physical, and Molecular Sciences (Computer Science)—BSc MSc (Belgrade) PhD (Southern California)
- Prkachin, Kenneth, Professor Emeritus and Adjunct Professor, Health Sciences and Psychology—BA MA PhD (British Columbia) R. Psych
- Pypker, Thomas, Adjunct Professor, Natural Resources and Environmental Studies—BSc (McMaster) MSc (British Columbia) PhD (Oregon State)
- Rader, Stephen, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Biochemistry, Chemistry)—BA (Swarthmore) PhD (California, San Francisco)
- Rahemtulla, Farid, Assistant Professor, Anthropology (Interdisciplinary Studies)—BA (Alberta) MA (Toronto) PhD (Simon Fraser)
- Ransom, Angel, Adjunct Professor, Natural Resources and Environmental Studies (Environmental Planning)—BPlan (Northern British Columbia)
- Regehr, Colleen, Adjunct Professor, Nursing—BScN (British Columbia) MSN (Athabasca)
- Reid, Matthew, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Physics)—BSc (Northern British Columbia) MSc PhD (Alberta)
- Reimer, Kerry, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Biochemistry, Chemistry)—BSc (British Columbia) MSc PhD (Simon Fraser)
- Rex, John, Adjunct Professor, Natural Resources and Environmental Studies (Geography)—BSc (Memorial) MSc PhD (Northern British Columbia)
- Reynolds, Tannis, Assistant Professor, First Nations Studies—BA MA (Northern British Columbia)
- Robert, Jeanne, Adjunct Professor, Natural Resources and Environmental Science—BSc MSc (Northern British Columbia) PhD (British Columbia)
- Robinson, Rheanna, Assistant Professor, First Nations Studies—BA MA (Northern British Columbia) PhD (British Columbia)
- Rocha, Elizabeth, Adjunct Professor, Psychology—BA (British Columbia) MSc (Northern British Columbia) PhD (Saskatchewan)
- Rogers, Bruce, Adjunct Professor, Ecosystem Science and Management—BSc MSc (Northern British Columbia)
- Rojas, Shandra, Adjunct Professor, Nursing—BScN (Northern British Columbia) MScN (Victoria)
- Romanets, Maryna, Professor, English, Gender Studies—MA (Chernivtsi) PhD (Ukrainian) National Academy of Arts and Sciences) PhD (Saskatchewan)
- Russell, Grahame, Adjunct Professor, Natural Resources and Environmental Studies (Geography)—BA (Guelph) LLB (Ottawa)
- Rutherford, Michael, Professor, Natural Resources and Environmental Studies—BSc Hons (British Columbia) PhD (Alberta)
- Ryan, Daniel, Associate Professor, Mathematical, Computer, Physical, and Molecular Sciences (Mathematics)—BSc MSc PhD (Guelph)
- Safaei Boroojeny, Jalil, Professor, Business Administration, Development Economics, International Studies—BA MA (Shiraz, Iran) PhD (Manitoba)
- Sanborn, Paul, Associate Professor, Natural Resources and Environmental Studies—BA (Western) MSc (Alberta) PhD (British Columbia)
- Sanchez-Fortun Stoker, Jamie, Adjunct Professor, Mathematical, Computer, Physical and Molecular Sciences (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 Emeritus, Social Work—BA BSW (Manitoba) MSW (British Columbia) PhD (Memorial)
- Schorcht, Blanca, Associate Professor, English and First Nations—BA MA PhD (British Columbia)
- Schuster, Richard, Adjunct Professor, Natural Resources and Environmental Studies—BSc MSc (Graz) PhD (British Columbia)
- Scott, Charles, Lecturer, Business Administration—BA (British Columbia) MA (Waterloo)
- Sharp, Karyn, Adjunct Professor, Anthropology (Interdisciplinary Studies)—BA Hons (Radford) MA (Utah)
- Shea, Joseph, Assistant Professor, Geography—BSc (McMaster) MSc (Calgary) PhD (British Columbia)
- Shegelski, Mark, Professor Emeritus, Mathematical, Computer, Physical, and Molecular Sciences (Physics)—BSc Hons (Calgary) MSc PhD (British Columbia)

- Sherry, John, Assistant Professor, Education—BA (San Diego) MS PhD (Fordham)
- Shrimpton, Mark, Professor, Natural Resources and Environmental Studies—BSc (Victoria) MSc PhD (British Columbia)
- Shubair, Mamdouh, Associate Professor, Disability Management, Health Sciences—BSc MSc PhD (Waterloo)
- Shultis, John, Associate Professor, Natural Resources and Environmental Studies—BSc Hons (Trent) PhD (Otago)
- Siakaluk, Paul, Professor, Psychology—BA Hons MSc (Calgary) PhD (Alberta)
- Sidhu, Narinder, Adjunct Professor, Mathematical, Computer, Physical and Molecular Sciences (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 (Interdisciplinary Studies), Gender Studies, International Studies and Adjunct Professor, Health Sciences—BA (Toronto) MA (McMaster) PhD (Massachusetts)
- Smith, Heather, Professor, Gender Studies, Global and International Studies—BA (Alberta) MA PhD (Queen's)
- Smith, Kevin, Associate Professor, Health Sciences—BSc Hons (Napier Polytechnic of Edinburgh) PhD (MRC Clinical Research Centre, Harrow)
- Sommerfeld, Anne, Senior Lab Instructor, Health Sciences—HBScN (Lakehead) MSc (Northern British Columbia) RN
- Stadnyk, Tricia, Adjunct Professor, Natural Resources and Environmental Studies (Environmental Sciences)—BAsc PhD (Waterloo)
- Stark, Martha, Adjunct Professor, Mathematical, Computer, Physical, and Molecular Sciences (Biochemistry, Chemistry)—BA (Swarthmore) PhD (California)
- Stewart, Katherine, Adjunct Professor, Natural Resources and Environmental Studies—BSc MSc (Lakehead) PhD (Northern British Columbia)
- Strong, Willard, Adjunct Professor, Ecosystem Science and Management—BSc (British Columbia) MSc (Simon Fraser) PhD (Oregon)
- Sui, Jueyi, Professor, Natural Resources and Environmental Studies—BEng MScE (Hefei) Dr-Ing (Kaiserslautern)
- Swainger, Jonathan, Professor, History—BA (Lethbridge) MA (Calgary) PhD (Western)
- Syme, Ann, Adjunct Professor, Nursing—BSc MSc (British Columbia) PhD (Victoria)
- Tang, Youmin, Professor, Natural Resources and Environmental Studies—BSc MSc (Nanjing) PhD (British Columbia)
- Tannert, Thomas, Associate Professor, Integrated Wood Engineering and Design—Dipl. Ing (Bauhaus) MSc (Bio-Bio) 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)
- Thompson, Mark, Adjunct Professor, Ecosystem Science and Management—BSc (Northern British Columbia) MSc (Calgary)
- Thring, Ron, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Chemistry), Natural Resources and Environmental Studies—BSc (Botswana and Swaziland) MASc (Bradford UK) MSc (Saskatchewan) PhD (Sherbrooke)
- Trancken, Si Chava, Associate Professor, Gender Studies and Social Work—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—Dipl Nurs (British Columbia Institute of Technology) BSN (Open University) BHS (Thompson Rivers) MScN-FNP (Northern British Columbia)
- Venter, Oscar, Associate Professor and Forest Renewal BC Endowed Chair in Growth and Yield and Forest Valuations, Natural Resources and Environmental Studies—BSc Hons (Concordia) PhD (Queensland)
- Wagner, Shannon, Professor, Disability Management, Health Sciences—BA MSc PhD (Northern British Columbia)
- Walters, Samuel, Professor, Mathematical, Computer, Physical, and Molecular Sciences (Mathematics)—MA PhD (Dalhousie)
- Wan, Tak Shik (Andy), Assistant Professor, Mathematics and Statistics—BAsc MSc (UBC) PhD (Montreal)
- Wang, Baotai, Professor, Business Administration, Development Economics, International Studies—BA MA (People's University of China) MA (Windsor) PhD (Dalhousie)
- Ward, Arlene, Adjunct Professor, Disability Management—BSc (British Columbia) MSc (Calgary)
- Werner, Jeffery, Adjunct Professor, Ecosystem Science and Management—BSc MSc (British Columbia) PhD (Pennsylvania)
- Wessell Lightfoot, Dana, Associate Professor, Gender Studies and History—BA MA PhD (Toronto)
- Whalen, Catherine, Assistant Professor, Education—BEd (New Brunswick) MA (Royal Roads) EdD (Calgary)
- Wheate, Roger, Associate Professor, Mathematical, Computer, Physical, and Molecular Sciences (Computer Science), Natural Resources and Environmental Studies—BSc Hons (St Andrews) MA (Queen's) PhD (St Andrews)
- Whitcombe, Todd, Associate Professor, Mathematical, Computer, Physical, and Molecular Sciences (Chemistry), Natural Resources and Environmental Studies—BSc Hons PhD (Victoria)
- Wilson, Erin, Assistant Professor, Nursing—BSc (Manitoba) MSc (British Columbia) PhD (Northern British Columbia)

Faculty

- Wilson, Gary, Professor, Political Science, International Studies—BA (Carleton) MA PhD (Toronto)
- Wimmers, Guido, Associate Professor, Integrated Wood Engineering and 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 MB BS Hons (London) DM (Southampton)
- Wood, Lisa, Assistant Professor, Natural Resources and Environmental Studies—BSc MSc (Northern British Columbia) PhD (Victoria)
- Wright, Pamela, Associate Professor, Natural Resources and Environmental Studies—BSc (Lakehead) MSc PhD (Ohio State)
- Yurkewich, Jewel, Adjunct Professor, Ecosystem Science and Management—BSc (Alberta) MSc (Eastern Finland)
- Yin, Jun, Adjunct Professor, Chemistry—BS MS (Hohai) PhD (Nevada)
- Young, Andrew, Adjunct Professor, Environmental Planning—BA (Simon Fraser) MA (British Columbia)
- Zhou, Jianhui, Assistant Professor, Integrated Wood Engineering and Design—PhD (New Brunswick)
- Zimmer, Lela, Associate Professor, Health Sciences, Nursing—Dipl Nursing (British Columbia Institute of Technology) BSN (Northern British Columbia) PhD (Alberta)

Officers of the University

UNBC Board of Governors

Dr. Geoff Payne	Interim President and Vice Chancellor	Mr. Michael Reed	Order-in-Council Appointment (Alumni)
Dr. Joseph Gosnell, Sr.	Chancellor	Mr. Gregory Stewart	Order-in-Council Appointment
Mr. Aaron Ekman	Chair, Order-in-Council Appointment	Ms. Barbara Ward-Burkitt	Order-in-Council Appointment
Mr. Andrew Robinson	Vice Chair, Order-in-Council Appointment	Dr. Paul Sanborn	Elected Faculty Member
Ms. Allison Beswick	Order-in-Council Appointment (Alumni)	Dr. Kerry Reimer	Elected Faculty Member
		Mr. Garfield Staats	Elected Undergraduate Student Member
		Ms. Furqana Khan	Elected Graduate Student Member
		Ms. Joyce Henley	Elected Staff Member

Senate

Dr. Joseph Gosnell, Sr.	Chancellor
Dr. Geoff Payne	Interim President and Vice Chancellor, and Chair of Senate
Dr. Dan Ryan	Provost and Vice President, Academic
Dr. Kathy Lewis	Acting Vice President, Research
Dr. Shannon Wagner	Interim Dean, College of Arts, Social, and Health Sciences
Dr. Ian Hartley	Interim Dean, College of Science and Management
Vacant	Vice Provost
Vacant	Dean, Regional Programs
Ms. Lisa Haslett	Director, Business Services and Continuing Studies
Dr. Bill McGill	Interim University Librarian
Mr. Bert Annear	Registrar and Secretary to Senate (non-voting)

College of Arts, Social and Health Sciences Faculty Members

Dr. Robert Budde
Mr. Clarence Hofsink
Ms. Gwen Keeler
Dr. Tammy Klassen-Ross
Dr. Catherine Whalen
Dr. Christine Ho Younghusband

College of Science and Management Faculty Members

Dr. Alina-Geta Constantin
Dr. Peter Jackson
Dr. Elie Korkmaz
Dr. Thomas Tannert

Faculty of Business and Economics

Dr. Julius Bankole

Faculty of Indigenous Studies, Social Sciences and Humanities

Dr. Margo Greenwood

Faculty of the Environment

Dr. Dezene Huber

Faculty of Science and Engineering

Dr. Alex Aravind

Faculty of Human and Health Sciences

Vacant

Faculty Members at Large

Dr. Balbinder Deo
Dr. Hossein Kazemian
Ms. Kim Stathers
Dr. Julia Wimmers-Klick

Students – Undergraduate

Mr. Zachary Fleck
Mr. Ethan Fredeen
Ms. Helga Holler-Busch
Mr. Steven Horianopoulos
Ms. Laura Parent
Ms. Sakshi Satish

Students – Graduate

Mr. James Andrew Guest
Ms. Kristen Hirsh-Pearson, *Vice Chair of Senate*
Ms. Ceyanna Meroniuk
Ms. Nico Turner

Lay Senators

Dr. Janice Allen
Mr. Dhruv Desai
Ms. Andrea Palmer
Mr. Mike Peterson

WWN Representative

Dr. Deanna Nyce

Officers of the University

Regional Senators

Vacant (Northwest Region)

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

Vacant (Peace River-Liard Region)

Vacant (Aboriginal/First Nations Communities)

Senior University Administrators Not Otherwise Elected or Appointed to Senate (non-voting members)

Colleen Smith	Interim Vice President, Finance
Tim Tribe	Vice President, University Advancement
Dr. Paul Winwood	Associate Vice President, Northern Medical Program
Anne Sommerfeld	Interim Director, Centre for Teaching, Learning and Technology
Leonel Roldan-Flores	Director, International
Trevor Fuson	Chief Information Officer

Other Representatives Not Otherwise Elected or Appointed to Senate (non-voting members)

Jingyu Chen	President of NUGSS
Adrian Smith	President of NBCGSS
Dr. Rheanna Robinson	Senior Advisor to the President on Aboriginal Relations (on leave)
Dr. Stephen Rader	President of the Faculty Association

University Administrative Officers

Academic Administration

Interim President and Vice Chancellor—Geoffrey Payne, BSc MSc PhD (Memorial)

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

Interim Vice President, Research—Kathy Lewis, BSF (British Columbia) MS (Virginia Polytech) PhD (Oregon)

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

Interim Dean, College of Arts, Social and Health Sciences—Shannon Wagner, BA MSc PhD (Northern British Columbia)

Interim Dean, College of Science and Management—Ian Hartley, BSc MScF (New Brunswick) PhD (British Columbia)

Dean, Regional Programs—

Business Services and Continuing Studies

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 Slater

Facilities

Director, Facilities Management—David Claus, BEng (Victoria) PhD (Oxford)

Finance and Business Operations

Interim Vice President, Finance—Colleen Smith, BComm Hons (Co-op) (Memorial) CPA CA

Acting Director, Financial Services and Systems—Leanne Murphy, BBA (Thompson Rivers) CPA CMA

Manager, Contracts and Supply Chain Management—Michelle McKinnon, MBA (Calgary)

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

Human Resources

Director, Human Resources—Kerry Roberts, BComm (Thompson Rivers) CHRP

Director, Health and Wellbeing—Shelley McKenzie, BComm MBA (Northern British Columbia)

Senior HR Consultant—Arleta Lucarelli, CHRP

Senior HR Consultant—Jennifer Dawson

Information Technology Services

Chief Information Officer—Trevor Fuson

Manager, Client Services—Clayton Hanson

Interim Manager, Enterprise Systems—Pat Herbert

Manager, IT Infrastructure—Kevin Schretlen

Integrated University Planning

Director, Integrated University Planning

Senior Academic Budget Planning Officer

Senior Project Consultant

Office of the Registrar

University Registrar and Secretary to Senate—Bert Annear

Associate Registrar, Records and Systems—Kimberly Read

Associate Registrar, Enrollment—Darcy Smereka

Office of University Advancement

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

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

Office of University Secretariat

University Secretariat—

Safety and Security

Director, Safety and Security—Sarah Elliott

Student Engagement and Affairs

Director, Student Affairs—Amelia Kaiser, BA (Briercrest College) MBA (Northern British Columbia)

Director, International Education—Leonel Roldan-Flores, BA (Concordia) MSc (London School of Economics)

Director, Student Recruitment—Dennis Stark, BComm (Northern British Columbia)

Manager, Aboriginal Student Engagement—Bev Best, BA BEd MA (Northern British Columbia)

Manager, Housing and Residence Life—Justin Foster

Coordinator, Access Resource—Chrissy Ingram, MEd (Northern British Columbia)

Coordinator, Academic Success—

Coordinator, Co-operative Education—Jennifer Cole

Coordinator, Student Career Centre—Maria Trujillo, BComm MEd (Northern British Columbia)

Coordinator, Student Life—Dakota Den Duyf

University Library

Interim University Librarian—Bill McGill, BSA Hons MSc (Manitoba) PhD (Saskatchewan)

Interim Head, Archives and Special Collections—Erica Hernandez-Read, BA MA (British Columbia)

Archivist and Librarian—Kim Stathers, BA MALIS (British Columbia)

Librarian, Access Services—Annelise Dowd, BA (British Columbia) MLIS (McGill)

Librarian, Acquisitions—Heather Empey, BA (Augustana) MLIS (Alberta)

Librarian, Data, Map and Government Services—Susie Wilson, BSc (Northern British Columbia) MLIS (Alberta)

Librarian, Northern Health Sciences—Trina Fyfe, BA (Waterloo) MSt (Toronto) PhD (Northern British Columbia)

Librarian, Research and Learning Services—Kealin McCabe, BA (Wilfred Laurier) MLIS (Western Ontario)

Fees

Graduate

Graduate Tuition Fee Units are established by the Board of Governors of the University of Northern British Columbia at its March meeting. Tuition changes take effect at the beginning of the September Semester. In the event of a discrepancy between the present information and official documentation from the Board, the official documentation from the Board will take precedence. The fees presented here are for 2020-2021.

Note: Students who complete their graduation requirements early are required to pay the minimum tuition fee units.

Tuition Fee Units for Full-Time Domestic Master's Students

The full-time Basic Tuition Fee Unit is \$1,715.16 per semester for Canadian Citizens and permanent residents, with the following exceptions:

PROGRAM	BASIC TUITION FEE UNIT
Master of Arts in Disability Management	\$2,175.76
Master of Education	\$2,343.11
Master of Science in Health Sciences	\$2,175.76
Master of Science in Nursing	\$2,175.76
Master of Social Work	\$2,008.39

The minimum fee for the Master's degree is six full-time tuition fee units.

Tuition Fee Units for Full-Time International Master's Students

The full-time Basic Tuition Fee Unit is \$2,401.22 per semester for international students, with the following exceptions:

PROGRAM	BASIC TUITION FEE UNIT
Master of Arts in Disability Management	\$3,046.06
Master of Education	\$3,280.35
Master of Science in Health Sciences	\$3,046.06
Master of Science in Nursing	\$3,046.06
Master of Social Work	\$2,811.75

The minimum fee for the Master's degree is six full-time tuition fee units.

Tuition Fee Units for Part-Time Domestic Master's Students

The part-time Basic Tuition Fee Unit is \$906.59 per semester for Canadian citizens and permanent residents with the following exceptions:

PROGRAM	BASIC TUITION FEE UNIT
Master of Arts in Disability Management	\$1,142.27
Master of Education	\$1,230.14
Master of Science in Health Sciences	\$1,142.27
Master of Science in Nursing	\$1,142.27
Master of Social Work	\$1,054.40

The minimum fee for the Master's degree is twelve part-time tuition fee units.

The full-time Special Education Graduate Certificate fee unit is \$2,364.75 for domestic students and \$3,376.87 for international students. The minimum fee for the Graduate Certificate is three full-time tuition units.

Program Fees for Full-Time MBA Students

The MBA Program consists of 5 semesters. For the first semester, a \$2000.00 deposit is due within 30 days of admission with the balance due the first day of classes. Of the \$2000.00 deposit - \$500.00 is non-refundable after June 30. The \$1500.00 balance is non-refundable after July 25. All future semesters, tuition, program fees and student fees are due prior to the first weekend of the semester. Non-payment of fees prior to the first weekend may hold up registration and access to Blackboard.

Domestic students: Tuition is \$6987.00, plus \$433.50 for the MBA fee per semester. Textbooks, course materials and student fees are not included in the above fees.

International students: Tuition is \$8160.00, plus \$433.50 for the MBA fee per semester. Textbooks, course materials and student fees are not included in the above fees.

Some travel is required and may involve additional costs to the student.

Note: All fees are subject to Board of Governors approval. The tuition fees do not include UNBC student fees, cost of transportation or accommodation, cost of textbooks or course materials. Please refer to the UNBC Graduate Studies website (www.unbc.ca/graduate-programs) for more information on student fees.

Tuition Fee Units for Master of Engineering in Integrated Wood Design

Basic Tuition Unit **\$5,203.13**

The minimum fee for the Master's degree is three full-time tuition fee units.

The program fees do not include UNBC student fees, costs of textbooks, accommodation and transportation. Please refer to the UNBC Graduate Studies website (www.unbc.ca/graduate-programs) for more information on student fees.

Tuition Fee Units for Full-Time PhD Students

The full-time Basic Tuition Fee Unit is \$1,715.16 per semester for Canadian citizens and permanent residents, and \$2,401.22 for international students. Students entering a doctoral program for the first time may be eligible for a Doctoral Tuition Scholarship for the initial two years of registration, renewable for a further two consecutive years if progress is deemed satisfactory.

The minimum fee for the Doctoral degree is nine full-time tuition fee units. See Section 7.1.6 of Graduate Programs Admissions and Regulations.

Fees for Undergraduate Courses

Graduate students taking undergraduate courses will be charged on a per-credit-hour basis for those courses. The Tuition Fee Unit Payment Schedule noted above does not include graduate or undergraduate courses taken as extra to the degree.

Tuition Fee Units for Continuing Students

Master's students who extend their studies beyond two years (or beyond four years if enrolled part-time) or Doctoral students who extend their studies beyond three years must pay a continuing registration fee of \$604.03 per semester.

For Graduate students enrolled in the MBA program, a \$1,293.59 continuation fee for domestic students or a \$1,487.63 continuation fee for international students will be charged according to the regulations for graduate programs should the period of study extend beyond five semesters.

Fee for Time Extensions

Students permitted to register on a time extension beyond the maximum specified in the General Regulations of the Calendar are required to pay the full-time Tuition Fee Unit applicable to their Program for each semester of registration.

Non-Degree Graduate Students

Non-degree graduate students are charged \$954.00 (domestic) or \$1335.60 (international) for each course attempted.

Audit Fees for Degree and Non-Degree Graduate Students

Full-time and part-time graduate (degree) students auditing undergraduate courses will be charged the same per-credit-hour fee

as part-time undergraduate students.

Graduate (degree) students who audit courses at the graduate or undergraduate level are responsible for all ancillary and applicable course fees (e.g., field trip fees).

Non-degree students as defined in Section 1.5 will be charged \$477.00 (domestic) or \$667.80 (international) (half of the cost of taking one course as a non-degree student) for auditing any 3-credit-hour course. They are responsible for all applicable ancillary and individual course fees.

Additional Semester Fees

Admissions Deposit (international)*	\$7500.00 per semester *non-refundable
Student Service Fee	\$42.45 per semester
Student Society Fee	\$68.00 per semester
Student ID Card Fee	\$2.12 per semester
Intramural Recreation & Fitness Fee (Prince George students only)	\$60.49 per semester
PGPIRG Fee	\$4.18 per semester
Late Registration Fee (if applicable)	\$100.00 per semester
NBCGSS Health & Dental Plan Fee (Prince George campus only)	\$369.29 annually
GSS U-PASS (Prince George students only)	\$60.00 per semester
BC Federation of Students	\$9.52 per semester

Miscellaneous Fees

Application Fee-Domestic Applicants	\$76.50*
*to accompany application for admission if all post-secondary transcripts come from institutions within Canada (non-refundable)	
Application Fee-International Applicants	\$153.00*
*to accompany application for admission (non-refundable)	
Re-Application Fee	\$100.00
Medical Insurance for International Students	\$220.00*
*per semester (please refer to the following section on Medical Insurance for International Students)	
Graduation Processing Fee	\$41.63*
*per application for all graduating students (non-refundable)	
Student ID Card Replacement	\$15.00 per lost card
Thesis/Dissertation Registration Fee	\$48.00*
*Library and Archives Canada fee for inclusion in LAC Database and Dissertation Abstracts (per thesis submitted)	
Thesis Binding Fee	\$34.00*
*per bound copy (tax included)	
Official Transcript Fee	\$10.20*
*per official transcript	

Fees

NSF Charge *per returned cheque	\$15.00*
Graduate Admission Deferral Deposit	\$250.00
Office of Graduate Programs Administrative Fee	\$250.00

Parking Fees

Metered	\$3.25 per day including taxes
Semester Permit (4 months)	\$204.00
Carpool Permit	\$35.00 per month plus taxes (for details see Parking Services)

Residence Fees

Application Fee	\$25.50 (non-refundable)
Late Application Fee	\$150.00 (non-refundable)
Residence Damage Deposit	\$250.00
Residence Infrastructure Fee	\$25.00 per semester
Residence Life Fee	\$47.00 per semester
Rent - Four Bedroom Unit	\$2,476.00 per semester, per occupant
Residence Parking	\$208.00 per semester

Housing rent includes local telephone services and high-speed internet connection.

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

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 ancillary fees.

Student Services Fee

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

NBCGSS Health & Dental Plan Fee

All NBCGSS members registered in the Fall semester and paying NBCGSS fees are automatically covered by the NBCGSS Health & Dental Plan. This includes full-time and part-time students, and international students (Prince George campus only).

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 dependents) by paying an additional fee. Most members that are not automatically covered, but 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.

Payment Due Date

All student accounts are payable in full by the first day of the semester.

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 will be denied graduation. The financial hold will be removed when the outstanding balance, including all service charges, is paid in full.

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 fee units 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
- 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 the box.
- American Express, MasterCard, Visa, or Interac Debit Card will be accepted in person by the Cashier, or online at the UNBC website.

Any questions regarding making payments may be directed to the Cashier's 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 Note

Due to the semester fee payment schedule (see Fees), there is normally no refund of fees for graduate students who withdraw from courses. If no course registration exists, registration must be maintained by registering in either the thesis or project.

Fee Reduction Schedule for Course Revision Period: For Non-Degree Graduate Students

The Fee Reduction Schedule will apply to non-degree graduate students who withdraw from courses. Refunds can be applied for at the Cashier's Office after the revision 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.

September Semester (September 9 to December 18)

September 23, 2020 Last day to add/drop without financial penalty
October 29, 2020 Last day to add/drop without academic penalty, 50% tuition refund

January Semester (January 5 to April 23)

January 19, 2021 Last day to add/drop without financial penalty
February 24, 2021 Last day to add/drop without academic penalty, 50% tuition refund

May Semester (May 3 to August 20)

June 22, 2021 Last day to add/drop without financial penalty
July 22, 2021 Last day to add/drop without academic penalty, 50% tuition refund

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

For condensed courses, the last day to revise registration 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 \$220.00 will be assessed 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 \$220.00 for four months of coverage.

Students must contact the International Centre 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 fulfill 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.

Academic Dates

Academic Year

The academic year extends from September 1 to August 31. 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

2020 – 2021 Semester Dates

2020 September Semester

September

7	Monday	Labour Day, University closed
8	Tuesday	Orientation Day
9	Wednesday	First day of classes, September Semester All September Semester fees due
23	Wednesday	**Last day to register or revise registration for the September Semester **Last day to withdraw from program without financial penalty **Last day to change September Semester courses from audit to credit and credit to audit

October

12	Monday	Thanksgiving Day, University closed
29	Thursday	**Last day to withdraw from September Semester courses without academic penalty (course will be denoted with W)

November

1	Sunday	Deadline to submit Application for Graduation to graduate in the September semester
11	Wednesday	Remembrance Day, University closed

December

7	Monday	Last day of classes
8	Tuesday	First day of exam period
18	Friday	Last day of exam period
24	Thursday	Christmas Eve, University closed
25	Friday	Christmas Day, University closed
26	Saturday	Boxing Day, University closed
27-31	Sun. to Thur.	University closed

2021 January Semester

January

1	Friday	New Year's Day, University closed
4	Monday	Orientation Day
5	Tuesday	First day of classes, January Semester All January Semester fees due
19	Tuesday	**Last day to register or revise registration for the January Semester **Last day to withdraw from program without financial penalty **Last day to change January Semester courses from audit to credit and credit to audit

February

15	Monday	Family Day, University closed
16-19	Tues. to Fri.	Mid-Semester Break (no classes February 16-19)
24	Wednesday	**Last day to withdraw from January Semester courses without academic penalty (course will be denoted with W)

March

1	Sunday	Deadline to apply for UNBC-administered scholarships and bursaries Deadline to submit Application for Graduation to graduate in the January semester
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April

1	Thursday	Registration opens for 2021-2022 academic year
2	Friday	Good Friday, University closed
4	Sunday	Easter Sunday, University closed
5	Monday	Easter Monday, University closed
12	Monday	Last day of classes
13	Tuesday	First day of exam period
23	Friday	Last day of exam period

2021 May Semester and 2021 Spring Intersession

May

3	Monday	First day of classes, May Semester and Spring Intersession All May Semester fees due, including Spring/Summer Intersessions
7	Friday	**Last day to register or revise registration for the Spring Intersession
17	Monday	**Last day to register or revise registration for the May Semester **Last day to withdraw from program without financial penalty **Last day to change May Semester courses from audit to credit and credit to audit
24	Monday	Victoria Day, University closed
28	Friday	Convocation Day (Prince George campus)

June

11	Friday	Last day of classes, Spring Intersession
14	Monday	First day of exam period, Spring Intersession
18	Friday	Last day of exam period, Spring Intersession
19	Saturday	Maintenance shutdown, Prince George campus closed
21-July 2	Mon. to Fri.	Summer break for May Semester courses (no classes June 21 - July 2)
22	Tuesday	**Last day to withdraw from May Semester courses without academic penalty (course will be denoted with W)
30	Wednesday	Recommended deadline to apply for the BC Student Assistance Program (BC Student Loans)

2021 May Semester continued and 2021 Summer Intersession

July

1	Thursday	Canada Day, University closed
5	Monday	First day of classes, Summer Intersession
9	Friday	**Last day to register or revise registration for the Summer Intersession
15	Thursday	Deadline to submit Application for Graduation to graduate in the May semester

August

2	Monday	BC Day, University closed
13	Friday	Last day of classes, May Semester and Summer Intersession
16	Monday	First day of exam period, May Semester and Summer Intersession
20	Friday	Last day of exam period, May Semester and Summer Intersession

**Graduate students must have the permission of their supervisor to alter their registration and must maintain continuous enrollment in order to maintain their position in Graduate Studies.

2020 – 2021 Senate Dates

September 23, 2020

October 28, 2020

November 25, 2020

January 27, 2021

February 24, 2021

March 24, 2021

April 28, 2021

May 26, 2021

June 23, 2021

August 25, 2021

2020– 2021 Graduate Student Deadline Dates

2020 September Semester

Course Registration Deadlines

September 23	**Last day to register or revise registration for the September Semester **Last day to withdraw from the program without financial penalty **Last day to change September Semester courses from audit to credit and credit to audit status
October 29	**Last day to withdraw from September Semester courses without academic penalty

Fee Deadline

September 9	All September Semester tuition and student fees due
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***Application for Admission Deadline Dates are listed in the Admissions section**

Non-Degree Status Deadline

November 15	Deadline to apply for non-degree status for January Semester courses
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Graduation Deadline

November 1	Deadline to submit Application for Graduation to graduate in the September semester
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2021 January Semester

Course Registration Deadlines

January 19	**Last day to register or revise registration for the January Semester **Last day to withdraw from the program without financial penalty **Last day to change January Semester courses from audit to credit and credit to audit status
February 24	**Last day to withdraw from January Semester courses without academic penalty

Fee Deadline

January 5	All January Semester tuition and student fees due
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***Application for Admission Deadline Dates are listed in the Admissions section**

Non-Degree Status Deadline

April 15	Deadline to apply for non-degree status for May Semester courses
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Graduation Deadline

March 1	Deadline to submit Application for Graduation to graduate in the January semester
April 30	Deadline to complete all requirements for Master's and PhD programs for graduation

2021 May Semester

Course Registration Deadlines

May 7	**Last day to register or revise registration for the Spring Intersession
May 17	**Last day to register or revise registration for the May Semester **Last day to withdraw from the program without financial penalty **Last day to change May Semester courses from audit to credit and credit to audit status
June 22	**Last day to withdraw from May Semester courses without academic penalty
July 9	**Last day to register or revise registration for the Summer Intersession

Fee Deadline

May 3	All May Semester, Spring Intersession, and Summer Intersession tuition and student fees due
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***Application for Admission Deadline Dates are listed in the Admissions section**

Non-Degree Status Deadline

August 15	Deadline to apply for non-degree status for September Semester courses
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Student Loans Deadline

June 30	Recommended deadline to apply for the BC Student Assistance Program (BC Student Loans)
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Graduation Deadline

July 15	Deadline to submit Application for Graduation to graduate in the May semester
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**Graduate students must have the permission of their supervisor to alter their registration and must maintain continuous enrollment in order to maintain their position in Graduate Studies.

Graduate Programs Admissions and Regulations

1.0 General Admission

Application information is available from the website, at www.unbc.ca/apply/graduate or from the Office of the Registrar. The requirements for admissibility include, but are not limited to, an acceptable academic standing (see 1.3.2), acceptable letters of reference, the availability of a supervisor within the program concerned, and the availability of adequate space and facilities.

All documents submitted to the Office of the Registrar must be in the original language in which they were produced. Documents not produced in the English language must be accompanied by a notarized translation into English. Documents submitted in support of an application become the property of the University of Northern British Columbia and will not subsequently be released.

Admission to a Graduate Program is valid only for the semester indicated in the letter of offer of admission.

Application for Admission Deadline* Dates Refer to www.unbc.ca/apply/graduate for updates or changes

Application Deadline According to Preferred Semester of Entry

Certificate (Alphabetical by subject)	September	January	May
Indigenous Child and Youth Mental Health	December 15	May 1	December 15
Degree (Alphabetical by subject)	September	January	May
Business Administration (MBA)	December 15	no intake	no intake
Business Administration (MScBA)	December 15	no intake	no intake
Development Economics (MA)	December 15	May 1	no intake
Disability Management (MA)	December 15	no intake	no intake
Education (MEd – Counselling Specialization)	December 15	no intake	no intake
Education (MEd – Multidisciplinary Leadership Specialization)	December 15**	December 15**	December 15**
Education (MEd – Special Education Specialization)	December 15	no intake	no intake
English (MA)	December 15	no intake	no intake
First Nations Studies (MA)	December 15	no intake	no intake
Gender Studies (MA)	December 15	May 1	no intake
Health Sciences (MSc)	December 15	no intake	no intake
Health Sciences (PhD)	December 15	no intake	no intake
History (MA)	December 15	September 15	no intake
Integrated Wood Design (MEng)	Ongoing	Ongoing***	no intake
Interdisciplinary Studies (MA and MSc)	December 15**	May 1	December 15**
International Studies (MA)	December 15	May 1	no intake
Mathematical, Computer, Physical, & Molecular Sciences (MSc)	December 15	May 1	no intake
Natural Resources and Environmental Studies (MA)	December 15**	May 1	December 15**
Natural Resources and Environmental Studies (MNRES)	December 15**	May 1	December 15**
Natural Resources and Environmental Studies (MSc)	December 15**	May 1	December 15**
Natural Resources and Environmental Studies (PhD)	December 15**	May 1	December 15**
Nursing (MScN)	December 15	May 1	no intake
Nursing (MScN(FNP))	December 15	no intake	no intake
Political Science (MA)	December 15	May 1	no intake
Psychology (MSc)	December 15	no intake	no intake
Psychology (PhD)	December 15	no intake	no intake
Social Work (MSW)	December 15	no intake	no intake

*Applications for admission should be submitted as early as possible to the Office of the Registrar. Incomplete applications and applications received after the deadlines will be considered late and may not be processed in time to permit admission.

**Applications for admission are accepted for one semester only. Applicants must indicate whether they are applying to the September, January, or May Semester.

*** For the year 2020 only, there is a January entry and a September entry. Starting 2021, there is only September entry.

Graduate Programs Admissions and Regulations

The University of Northern British Columbia specifically reserves the right to exercise its sole, absolute, and unfettered discretion in admitting individuals to the University, its programs, or courses.

Applicants who have been offered admission to a graduate program must indicate, in writing, their intention to accept or decline the offer of admission within 30 days. Failure to notify the University may result in cancellation of the offer of admission.

In order to be considered for admission to Graduate Programs, all applicants must provide the following to the Office of the Registrar by the deadlines noted:

1. **An application for admission to Graduate Programs.**
2. **Respective application fee(s).**
3. **Three assessment reports (letters of reference) submitted directly to UNBC from the referees.**
4. **Official transcripts (one copy) from all post-secondary institutions attended.**
5. **Statement of Academic Interests (letter of intent).**
6. **Official English Language Test Scores (Required for applicants whose first language is NOT English) sent directly to UNBC from the testing agencies.**

Individual programs may require the submission of additional application material in order for an application to be considered.

1.1 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 have completed a degree program entirely in the English Language at a recognized institution from a country approved by UNBC where English is an official language may be exempted from this requirement. A listing of English Language Proficiency test exempt countries is maintained by the Office of the Registrar.

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 any of the Reading, Listening, Writing or Speaking components; or equivalent other TOEFL score. 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.

- CAEL (Canadian Academic English Language Assessment) or the CAEL CE: overall 70, with no subtest below 60.
- CELPIP (Canadian English Language Proficiency Index Program)
 - CELPIT-A (Academic Reading and Writing): 4H
 - CELL (Listening): 4H
 - CELTOP (Speaking): 4H
- MELAB (Michigan English Language Assessment Battery): 85 final score, with 3 in the speaking test.
- PTE (Pearson Test of English - Academic): 65 overall score, with a score of not less than 60 in reading, writing, listening, and speaking.
- A final grade of 3.00 (B) or better in both the UNBC English Language Studies 50 and English Language Studies 170, obtained concurrently and prior to application for Graduate admission.
- A final grade of 3.00 (B) or better in an articulated BCCAT EAP 4 program, prior to application for Graduate 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.

Some graduate programs may require higher English Language proficiency scores. Please consult the Program section of the calendar for additional requirements.

UNBC reserves the right to consider, in addition to test scores, any factors that it considers appropriate in making a final determination of the English language proficiency of an applicant.

1.2 GRE Requirement for Graduate Programs

The Graduate Record Examination (GRE) is prepared and scored by the GRE Board and Educational Testing Service. UNBC's institution code is 0320. The GRE is used widely by universities to supplement undergraduate records and other qualifications for admission to graduate study.

GRE requirements are prescribed by individual programs. For some programs, completion of the examination may be mandatory. Applicants are advised to check program listings for detailed information. However, UNBC reserves the right to require a GRE score (on Subject and General Tests) for any applicant. Voluntary submission of a GRE score may facilitate the admission process.

1.3 Admission to Master's Degrees

1.3.1 In general, an acceptable academic standing will be a four-year (120 credit hours) Baccalaureate degree (or equivalent) from a recognized institution.

1.3.2 Grade point average of at least 3.00 (B) in the work of the last 60 credit hours (approximately the last two years). A Baccalaureate degree is required for entry. The minimum GPA of 3.00 (B) is based on the UNBC 4.33 scale. The GPA from sending institutions will be assessed and converted to the UNBC scale when being considered for admission. **Note: Higher entrance standards than those**

outlined in this section may be set by individual programs.

Courses used in the calculation of the admission grade point average cannot be used as credit toward a graduate degree program.

1.3.3 A faculty member who wishes to supervise an applicant who has a four-year (120 credit hours) Baccalaureate degree (or equivalent) that does not meet the GPA requirements stated above and who obtains the recommendation of the appropriate program must have approval from the Vice Provost Student Recruitment or designate who admits the applicant. The applicant must have significant formal training and relevant professional experience to offset such GPA deficiencies.

1.3.4 Evidence is required, in the form of three letters of reference that are submitted directly to the Office of the Registrar from qualified referees, of the student's ability to undertake advanced work in the area of interest.

1.4 Admission to the Master's Degree as a Conditionally Admitted Mature Student

Five years after completion of a Baccalaureate degree as defined in 1.3.1, applicants whose academic record is such that they would not be admissible to a Master's program may be admitted conditionally as mature students, provided they are recommended by the appropriate Program. Such recommendations must be made in writing by the Program and approved by the Vice Provost Student Recruitment or designate.

The minimum grade point average for admission to a Master's program as a conditionally admitted mature student is 2.67 (B-).

A student conditionally admitted to a graduate program must earn a grade point average of at least 3.00 (B) in each of the first two 3-credit-hour graduate courses taken. The first two courses will be determined by the Program and approved by the Vice Provost Student Recruitment or designate. If this condition is successfully met, the student's status will be changed to regular graduate student status. If the condition is not met, the student will be required to withdraw from the Program.

Students admitted in this category normally will not receive transfer credit for any courses completed prior to enrolling in their Graduate Program.

1.5 Admission to Non-Degree Coursework

Non-degree graduate students are those taking graduate courses, but not for credit toward a degree at UNBC. Such students are admitted under one of three categories defined in 1.5.1, 1.5.2 and 1.5.3.

1.5.1 Visiting graduate students are those on a Letter of Permission which specifies courses allowed for credit toward a graduate degree at another university. Applicants in this category must provide a letter of permission from their home institution. No other supporting documentation is required. Students must request that an official transcript be sent directly to their home institution upon completion of coursework at UNBC.

1.5.2 Exchange graduate students are those covered by the Western Deans' Agreement or other formal exchange agreement. If a student is admitted under the Western Deans' Agreement or other formal exchange agreement, all tuition fees at UNBC will be waived; however, ancillary student fees will be charged. Applicants in this category must submit a completed and duly signed Western Deans' Agreement form at their home institution (if applicable) certifying the applicant as an exchange student, under the provisions of the Agreement. Courses to be taken toward their degree must be specified in the documentation. No other supporting material is required. Students must request that an official transcript be sent directly to their home institution upon completion of coursework at UNBC.

1.5.3 Non-degree students are normally those who wish to improve their academic background. Applicants under this category who **do not** hold a Master's degree must normally meet the same entrance requirements and follow the same application procedure as outlined in section 1.3, with the exception of 1.3.4 (letters of reference). Holders of a Master's degree (or equivalent) from a recognized institution in the same discipline as the coursework applied for must complete an application form for admission to Graduate Programs, and provide proof of conferral of the Master's degree.

A maximum of three graduate courses may be taken under this category. Individual programs may impose further restrictions. International students studying in Canada may be eligible to complete courses as non-degree students. Please see the Graduate Programs homepage, www.unbc.ca/graduate-programs for further information.

1.5.4 If a student admitted as a non-degree student is later admitted to a graduate degree program, coursework taken as a non-degree student may be applied to the graduate program subject to the recommendation of the supervisory committee and the approval of the Vice President Research and Graduate Programs or designate.

1.6 Auditing Graduate Courses

An individual who is either a graduate student in a UNBC Graduate Program or a non-degree graduate student as defined in Section 1.5 may be permitted to audit up to 3 credit hours of graduate courses in a semester. A continuing student should add the audit course to their Graduate Registration Form. A new applicant auditing a course should submit a Graduate Registration Form to the Office of the Registrar clearly indicating the course name and number with an Application for Admission to Graduate Programs together with proof of degree conferral.

Neither full-time nor part-time graduate students in a UNBC Graduate Program will be charged for auditing graduate-level courses as long as auditing the course is required by the graduate supervisor/supervisory committee. If any course audit is not already included as part of a student's approved graduate program, then a Graduate Program Revision Form must be completed. The supervisor must provide a rationale for the course audit, explaining how the course is related to the student's research. The appropriate signatures must also be included on the Graduate Registration Form and/or the Add/Drop Form.

Graduate Programs Admissions and Regulations

Registration as an auditor is subject to the following conditions:

- 1.6.1** Admittance to the class is dependent on the class size and other factors that the Instructor and the Program establish.
- 1.6.2** The degree of participation in the course is at the discretion of the Instructor.
- 1.6.3** Attendance and participation shall grant no entitlement to an academic record of such attendance and shall not be considered as meeting admission, prerequisite or course requirements for any graduate program.

1.7 Upgrading for Admission to Graduate Programs

Individuals wishing to apply to graduate programs may not meet the normal requirements for admission. Such cases normally fall into either of the following categories:

1.7.1 Admission requirements satisfied but course background inappropriate or prerequisites lacking Upon the recommendation of the Program concerned, the Vice Provost Student Recruitment or designate may approve the inclusion of the missing background or prerequisites as part of the requirements for the Master's degree.

1.7.2 Pre-Entry Program When admission requirements are not satisfied and upon the recommendation of the Program concerned, the Vice Provost Student Recruitment or designate may approve a pre-entry program of undergraduate coursework totaling at least 12 credit hours of upper division courses. An average of not less than 3.33 (B+) must be achieved in the coursework, and no course must be completed at a level below 2.67 (B-). Courses taken for a pre-entry program may not be used for credit towards a graduate degree. Students approved by the Vice Provost Student Recruitment for a pre-entry program are guaranteed admission to the appropriate Graduate Program upon successful completion of the recommended courses.

1.7.3 Graduate course challenge is not permitted.

1.8 Integrated Delivery Graduate and Undergraduate Courses

1.8.1 An "integrated delivery" course is one in which a graduate course is co-taught with a 400-level undergraduate course which in turn is indicated as being offered at an advanced level. At the graduate level, learning experiences are qualitatively and quantitatively distinctive from the undergraduate experience and normally build upon the undergraduate course content. Nevertheless, courses taken specifically to meet the registration requirements of professional bodies may have the same content at each level.

1.8.2 All courses which are integrated on a continuing basis are so indicated in the Graduate Calendar by way of stated preclusions.

1.8.3 Integrated delivery courses are taught by faculty members who are approved to teach graduate level courses.

1.9 Permission for Undergraduates to Take Graduate Coursework

1.9.1 Students in their final year of a Bachelor's degree program at UNBC who have a GPA of at least 3.33 (B+) in the last 30 credit hours of coursework attempted and have completed all required lower-division coursework may be permitted to register in a maximum of 6 credit hours of graduate courses at the Master's level with the permission of the Instructor and the Graduate Program concerned and with the approval 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 an undergraduate program cannot be used for credit toward a 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 see the Office of the Registrar for further information.

1.9.2 Simultaneous enrollment in a graduate program and an undergraduate or certificate program is not permitted.

1.10 Admission as a Visiting Research Student

Admission to this category is restricted to graduate students covered by the Canadian Graduate Student Research Mobility Agreement or other approved research agreements. A Visiting Research Student must register in the course VRES 950-0 Visiting Research Student for each semester covered by the Agreement. Visiting Research Students are not permitted to take other courses at UNBC.

1.11 Misrepresentation of Application Information

Misrepresentation of application information constitutes misconduct as per the *Academic and Non-Academic Conduct Student Policy*. An applicant's admission, acceptance or registration to the University, a program or a course of study may be revoked. There may be impacts on future considerations. For more information on student conduct at UNBC, visit <https://www.unbc.ca/policy>.

2.0 Registration Procedures and Status

2.1 Initial Registration

All students admitted to a Graduate Program must normally register during the dates specified for such registration. All letters of admission that are not used to register in the semester to which they apply are automatically cancelled. Students who are issued a letter of admission for the September Semester may not use this document for entry

in the January Semester. Any requests for deferral of admission to a graduate program must be made in writing to UNBC Graduate Admissions in the Office of the Registrar, along with payment of the Admission Deferral Fee.

2.2 Enrollment and Re-enrollment

2.2.1 Continuity of Registration All students are required to either register in every semester (September, January, May) from the time of admission until the requirements of the degree have been met, or formally withdraw in accordance with regulation 2.5 below. Students are required to pay minimum tuition fees (see Fees section).

2.2.2 Re-registration Students who are missing one semester or more of registration and who have not been withdrawn from their graduate program must:

- a. Pay any outstanding fees;
- b. Register for those semesters not previously registered in; and
- c. Pay any new tuition fee units.

Students who have registered at another university or college since last in attendance at UNBC are required to state the names of all educational institutions of post-secondary level attended and to submit an official transcript of their academic records at these institutions to the Office of the Registrar.

2.2.3 Reinstatement Students who have withdrawn with permission from their graduate program and later wish to return can only do so if, inclusive of their time away from their graduate program, they have not exceeded the time limit applicable to their graduate program (See Regulation 4.2 and 7.7), and have supervisory support for reinstatement.

Students who have not exceeded the time limit must do the following:

- a. Submit a new Application for Admission to Graduate Programs Form and pay the reapplication fee;
- b. Provide a letter to UNBC Graduate Admissions in the Office of the Registrar stating their rationale for wishing to return to their graduate program; and
- c. Provide proof of supervisory support for their reinstatement.

Students who have registered at another university or college since last in attendance at UNBC are required to state the names of all educational institutions of post-secondary level attended and to submit an official transcript of their academic records at these institutions to the Office of the Registrar.

Students who have exceeded the time limit period or who have been withdrawn without permission, please see section 2.2.4.

2.2.4 Reapplication Students who have either a) been withdrawn without permission or b) whose time limit has expired must re-apply to UNBC as new applicants and pay the reapplication fee. If admitted, students must start anew: normal program requirements apply, including time limitations regardless of previously completed coursework accepted (see 4.2.1) and minimum tuition fee units.

2.3 Definition of Full-Time and Part-Time Status

A full-time graduate student is one who is either:

- a. enrolled in courses totaling a minimum of 6 credit hours during a single semester; or
- b. registered in a thesis, project, dissertation or other scholarly work during a semester.

A part-time student is any student who does not meet either criteria above.

Note: This definition does not necessarily govern the fee structure, which is determined at the time of admission.

2.4 Maximum Academic Load

2.4.1 The maximum academic load in a Graduate Program during any semester is 18 credit hours of coursework or 15 credit hours of coursework plus thesis, project, or dissertation. Programs may limit students to fewer credit hours.

2.4.2 Simultaneous enrollment in a graduate program and an undergraduate or certificate program is not permitted.

2.4.3 Simultaneous enrollment in more than one graduate program is not permitted with the exception of the situation covered by regulation 7.1.4b. Concurrent enrollment in a graduate degree program and related graduate diplomas or certificates may be permitted by an individual Program upon receipt of a separate application and payment of the appropriate fee(s).

2.5 Withdrawal from the University

Students in degree programs who wish to withdraw, either temporarily or permanently, must do so formally in accordance with the following procedures:

2.5.1 Students who wish to request a leave of absence must apply using the Leave of Absence Form to the Office of Graduate Programs, with supporting documentation from their supervisor, and with detailed documentation (E.g., a doctor's note) explaining the need for such a leave. A student should apply prior to the beginning of the leave of absence or in the same academic year if the request is retroactive. A leave of absence is normally for no more than one year in a graduate degree program. Under exceptional circumstances and only as recommended by the supervisor and approved by the Vice President Research and Graduate Programs or designate, a further leave of absence may be granted. Students cannot undertake academic or research work nor use any of the University's facilities during the period of leave. After the leave of absence is completed, students must register for the next semester. The transcript will record the notation: "Leave of Absence".

2.5.2 Time spent on an approved leave of absence (see Regulation 2.5.1) is not counted as part of the total time allowed for completion of the degree program (see Regulation 4.2).

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2.5.3 Students who wish to withdraw from their Graduate Program, and have their transcript indicate that they were in good standing when they withdrew, must apply using the Request to Withdraw Form to the Vice President Research and Graduate Programs or designate, with supporting documentation from their supervisor. The transcript will record the notation: “Withdrawn with Permission”.

2.5.4 The transcript of students who fail to notify the University of their intention to withdraw from their Graduate Program or who have not maintained continuity of registration in accordance with Regulation 2.2.1 will record the notation “Withdrawn without Permission”.

2.6 Letter of Permission for Studies Elsewhere

Students currently registered in a Graduate Program who wish to undertake studies at another institution for transfer credit toward their graduate degree at UNBC must apply in writing to the Vice President Research and Graduate Programs or designate, specifying the host institution, the courses to be taken, and their credit values. The application must be supported by the supervisor. Students must request that an official transcript be sent directly to the Office of the Registrar at UNBC from the host institution upon completion of the coursework.

Note: Students are required to maintain continuous registration and pay the fees for the semester at UNBC while studying elsewhere.

2.6.1 Western Deans’ Agreement

Students currently registered in a graduate program who wish to undertake studies at a western Canadian university for transfer credit toward their graduate degree at UNBC may be eligible for exchange status under the provision of the Western Deans’ Agreement. Information and relevant forms are available from the Graduate Programs website, www.unbc.ca/graduate-programs, or at the Office of Graduate Programs. Students must include an outline of the coursework that they propose to undertake, including a demonstration of the appropriateness of the selected course to act as a replacement of existing courses in the program of study. The application must be submitted to, and supported by, the supervisor. If the application is approved by the Vice President Research and Graduate Programs or designate, the university concerned is notified by the Office of Graduate Programs. All applicable tuition fees are waived by the host institution. However, ancillary student fees are still applied. All students attending other institutions under the provisions of the Western Deans’ Agreement must register concurrently at UNBC in their thesis or project, and pay the appropriate fees.

3.0 Student Responsibilities

- a. Students are responsible for familiarizing themselves with the Graduate Regulations. If students are unsure about any aspect of the Graduate Regulations, they should contact the Office of the Registrar or the Office of Graduate Programs.
- b. Students are responsible for familiarizing themselves with the

program requirements and deadlines. If students are unsure about any aspect of the program regulations, they should contact the Graduate Program Chair.

- c. Students are responsible for ensuring the completeness and accuracy of their registration. If students are unsure about any aspect of their record, they should contact the Office of the Registrar.
- d. Students are responsible for familiarizing themselves with their fee obligations as outlined in the Fees Section of the calendar. If students are unsure about any aspect of the fee regulations, they should contact the Office of the Registrar.
- e. Students are equally responsible for maintaining open communication with their supervisor, supervisory committee, and Graduate Program Chair through mutually agreed upon regular meetings. Any problems, real or potential, should be brought to the attention of the supervisor, supervisory committee and Graduate Program Chair promptly. Students should be aware that formal routes of appeal exist in the form of the Appeals Procedure of the Office of the Registrar (see Appeals section).
- f. A letter mailed to a student’s address as it appears on record in the Office of the Registrar will be deemed adequate notification to the student for all matters concerning the student’s record.
Changes in address and telephone number must be reported promptly to the Office of the Registrar.

4.0 Regulations Governing Master’s Programs

4.1 Course and Program Requirements

4.1.1 Graduate Programs Within the first semester of registration in a graduate degree program, the supervisor forwards to the Office of Graduate Programs a completed Graduate Program Approval Form on behalf of each student.

4.1.2 Graduate Supervision Unless otherwise specified, the graduate supervisor nominates the supervisory committee and the Program forwards the names to the Vice President Research and Graduate Programs or designate for approval, normally within one semester of the first registration in the thesis, project, practicum, comprehensive examination or dissertation.

4.1.3 Coursework and research Considerable variation is permitted in the balance between research and the coursework required for the Master’s degree, although most programs include a thesis based on research (see 4.1.7).

Before the thesis, project, or practicum is written, the student should refer to the Office of Graduate Programs website for a copy of the *Formatting Guidelines For Graduate Dissertations, Theses, Projects & Practicum Reports*, which specifies academic and technical requirements to ensure acceptability of the document by the University and the National Library of Canada.

4.1.4 Integrated Courses Normally, Master’s students enrolled in thesis programs should complete at least 6 credit hours of graduate coursework in addition to any integrated delivery courses that may be taken. The Chair of the Program or, if applicable, the Chair of

the Graduate Committee decides whether or not a graduate course qualifies as part of the 6 credit hour requirement of a student's degree.

4.1.5 Language requirements Some Master's programs may require a reading knowledge of one or more languages other than English. Language requirements will be prescribed for individual students by the supervisory committee according to Program regulations. Such requirements are considered part of the student's Program. When a language requirement is imposed, it must be met prior to taking the oral examination or, in the case of non-thesis Master's programs, before the completion of the comprehensive examination and/or the project oral.

4.1.6 UNBC course requirements and applicability of transfer of credit At least half of the coursework taken must be completed as a degree candidate in a Graduate Program at UNBC and be UNBC courses. The program concerned may accept courses taken at other institutions for credit toward a UNBC graduate degree.

Courses taken at UNBC as a non-degree student in a Graduate Program may be considered for transfer to a graduate degree (see 1.5.4).

In order to qualify for transfer of credit, courses must meet all of the following conditions:

- a. must be a graduate level course;
- b. must be completed with a grade of at least B (or equivalent);
- c. must not have been used to obtain any degree, diploma, certificate or other credential unless otherwise noted.

The grades from courses allowed for transfer of credit will not appear on the transcript, and they will not be used in determining sessional or cumulative GPAs. Credit granted at another institution on the basis of life or work experience is not acceptable for transfer of credit. For students admitted as mature students (see 1.4), transfer of credit will not normally be granted for courses taken before enrolling in Graduate Programs at UNBC.

4.1.7 Master's degree without a thesis Not all programs offer the option of a Master's degree without a thesis. The following regulations apply:

- a. a program of study must be approved as for all other graduate degrees;
- b. a supervisory committee shall be formed according to 4.4.2;
- c. there must be evidence of independent scholarly work which may be in the form of a project, extended paper(s), work report, etc. The credit value for this work may range from 3 to 12 credit hours; and
- d. normally there shall be an oral examination, in accordance with regulation 4.5.

4.2 Time Limit

The maximum time for completion given below is not intended to be the normal time for completion. It is intended to take into account a wide variety of extraordinary circumstances and events that may delay

completion.

4.2.1 Normally, a student proceeding toward a Master's degree will be required to complete all degree requirements within five years (60 consecutive months) from the date of the first registration in the Master's degree. In no case will a degree be awarded in less than 12 consecutive months from the time of the first registration. However, it is expected that a full-time student will complete a Master's degree within 36 consecutive months from the date of first registration.

4.2.2 If a degree is not completed within the specified period following the first registration, the student will be withdrawn from the program. Under exceptional circumstances, time extensions may be granted by the Vice President Research and Graduate Programs. Such requests for time extension must be made in writing to the Office of Graduate Programs prior to the end of the semester in which the student's time limit expires. The request must include a timeline for the completion of the degree and a letter of support from the student's supervisor.

4.2.3 A time extension will normally be approved for one semester with the expectation that all outstanding degree requirements of a student's graduate program (including the defence and thesis corrections) are completed within this period of time. Only in exceptional circumstances will further time extensions be granted. Students who fail to complete at the end of a time extension will be Required to Withdraw from their graduate program.

4.2.4 Variances to the time limits specified in **4.2.1** and **4.2.3** are as follows:

- Master of Education (part time): seven years (84 consecutive months).

4.3 Academic Performance

A student who fails to meet academic standards, or whose thesis, project, practicum, or comprehensive examination is not progressing satisfactorily, may be Required to Withdraw by the Vice President Research and Graduate Programs on the advice of the supervisor and supervisory committee.

4.3.1 Students must attain a Semester GPA of at least 3.00 (B) for every semester in which they are registered. Individual programs may set higher standards. Any student with a Semester GPA below 3.00 may be allowed to register in the next semester while their academic performance is reviewed by their supervisory committee. Continuation in their Graduate Program is recommended by the supervisory committee subject to approval by the Vice President Research and Graduate Programs.

Students who were registered in one course in a semester that resulted in a Semester GPA less than 3.00 based on a B- grade may be allowed to continue in their graduate program. However, if the student's Cumulative GPA is lower than a 3.00, a continuance review is required.

4.3.2 A grade of F in a course taken for credit in a Graduate Program must be reviewed by the supervisory committee and a

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recommendation must be made to the Vice President Research and Graduate Programs concerning continuance of the student in the program. Such students will not be allowed to register in the next semester until approved to do so by the Vice President Research and Graduate Programs.

4.3.3 Graduate students may not repeat graduate courses except under exceptional circumstances if recommended by the supervisory committee subject to approval by the Vice President Research and Graduate Programs or designate.

4.3.4 The supervisor, in consultation with the supervisory committee (if applicable) and the student, completes a progress report for students registered in a thesis, project, practicum, or comprehensive examination on a yearly basis and submits it to the Vice President Research and Graduate Programs for approval. If the progress report indicates a second Needs Improvement or Unsatisfactory progress, the supervisory committee, with the Graduate Program Chair, reviews the student's continuation in a formal continuance review meeting and submits recommendations to the Vice President Research and Graduate Programs for final decision.

4.3.5 Conditions may be imposed by the Vice President Research and Graduate Programs or designate for continuation in the program. The conditions normally must be met within the next semester or the student will be Required to Withdraw.

4.4 Academic Supervision

4.4.1 Supervisor Each Master's student shall have, at the time of their application for admission, identified and gained the agreement of a member of the faculty assigned as a supervisor (or academic advisor). Subject to an offer of admission to the program, the agreement is approved by the Vice President Research and Graduate Programs.

The role of the supervisor is to provide advice, guidance, instruction and encouragement in the research activities of their students and to evaluate their progress and performance. The supervisor must be aware of and adhere to the various and relevant university regulations; provide guidance to the student on the nature of research, the standards required, the adequacy of the student's progress, and the quality of the student's work; and be accessible to the student to give advice and constructive criticism.

The supervisor and student must maintain contact through mutually agreed upon regular meetings. Supervisors who expect to be absent from the University for an extended period of time (including during sabbaticals) are responsible for making suitable arrangements (including the appointment of a temporary replacement) with the student and the chair of the program, or if applicable, the chair of the graduate committee for the continued supervision of the student or the nomination of another supervisor. All changes of this nature must be approved by the Vice President Research and Graduate Programs, who can recommend further changes of the supervisor or supervisory committee.

4.4.2 Supervisory Committee Each student shall have a supervisory committee nominated by the Program and approved by the Vice President Research and Graduate Programs. The chair of this committee shall be the supervisor.

The committee consists of at least three members including the supervisor. One member is normally from outside the program. If, at any point, more than one member of a supervisory committee is absent from the University for an extended period of time (including during sabbaticals), arrangements should be made so that the progress of the student is not impeded. No more than one member of a supervisory committee should be on an extended absence at any one time.

The duties of the committee include recommending a program of study chosen in conformity with the program requirements as stated in the graduate calendar (such as competence in languages other than English, in statistics, in computing, or in other research skills); meeting periodically to facilitate appropriate supervision of the thesis, project, or practicum; and participating in a final oral examination when the degree program requirements prescribes such an examination.

A member of a supervisory committee who has an adjunct or emeritus position with UNBC cannot be the sole supervisor of a graduate student. A faculty member who leaves UNBC cannot remain as the sole supervisor for a graduate student. The chair of the degree program will be expected to ensure that a new supervisor or co-supervisor is appointed from existing faculty.

All such changes require the approval of the Vice President Research and Graduate Programs who may recommend further changes of the supervisor or supervisory committee.

4.5 Final Oral Examinations and Examining Committees

4.5.1 General Regulations

- a. Master's degrees require a final examination.
- b. Degrees that have a final examination by project, comprehensive exam, major paper, etc., may be examined in a manner agreed upon by the Program and the Vice President Research and Graduate Programs or designate; otherwise, the examination shall be as for theses.
- c. For all theses, students may proceed to an oral examination when the supervisory committee is satisfied that the scholarly work represents an examinable document for the degree requirements. The supervisory committee and student confirm this by signing the Request for Oral Examination and Appointment of an External Examiner form. This form must be submitted to the Office of Graduate Programs at least six weeks before the anticipated date of oral examination. Two copies of the document are required by the Office of Graduate Programs upon submission of the Request for Oral Examination and Appointment of an External Examiner form. One copy of the document is forwarded to the External Examiner by the Office of Graduate Programs.
- d. Before proceeding to the final examination, all courses taken for credit in Graduate Programs must be completed with a

cumulative GPA of not less than 3.00 (B) and with no grade in any course less than B- (or the higher standard set by the individual program). Any language requirement must be met before the student proceeds to the examination.

- e. The Vice President Research and Graduate Programs (or designate) acts as Chair at the oral examination. Any tenured member of the faculty at the Associate Professor level or higher with extensive experience in Graduate Programs is eligible to serve as the Vice President's designate.
- f. Normally, the oral examinations are open to the University community. Copies of the thesis abstract shall be made available to all those attending the examination. The Vice President Research and Graduate Programs or designate shall have the right to attend all phases of the examination. In rare circumstances where a public examination would be detrimental to the student or the sponsor of the research to have it made public, the author of the thesis, project or dissertation may request a closed oral examination. The request for a closed oral examination must be made in writing to the Vice President Research and Graduate Programs or designate for review and approval when the Request for Oral Examination is made.
- g. The MBA Program schedules its project defences in the final semester concurrent with coursework.

4.5.2 Examining Committees The role of the examining committee is to assess the thesis, project or practicum, and to conduct an oral examination, if applicable, based on that scholarly work. The examining committee will consist of the supervisory committee and at least one other examiner, called the external examiner, who must be from outside the program area in which the Master's is based and who has had no past (previous five years), current, or planned involvement or association with the student or the thesis research.

External examiners should have established reputations in the area of the thesis research. Ideally, they should be at associate or full professor rank if they are at a university or be of comparable stature if they are not at a university. Please refer to the Policy on the Appointment of an External Examiner available from the Office of Graduate Programs, or from the website at www.unbc.ca/graduate-programs.

All examinations of theses and defensible projects are chaired by a faculty member who is totally independent of the program, student and project.

At a minimum, the people who must attend the defence in person are the student, supervisor (or one of the co-supervisors), the chair and one committee member.

For Master's degrees without a thesis, the membership of the final oral examining committee and the examination procedure shall be determined and approved by the Program and the Vice President Research and Graduate Programs or designate (see 4.5.1a).

4.5.3 Format of the Thesis Examination The first part of the oral examination shall consist of an oral presentation by the candidate to include a summary of the salient points of the research, normally within a time span of 20 to 25 minutes. This is followed by the questioning and examination of the candidate by the examining committee. The oral defence is normally about two hours in duration.

It is the responsibility of the Chair of the oral examination to pose questions raised by the external examiner (if not in attendance). The Chair of the oral examination may exercise discretion in allowing questions from guests following completion of the formal examination.

4.5.4 Results of Oral Examinations The decision of the examining committee shall be based on the content of the scholarly work or thesis as well as the candidate's ability to defend it. After the examination, the committee shall recommend to the Vice President Research and Graduate Programs or designate one of the following results:

a. Clear Pass

This decision is selected when the thesis, project or practicum is acceptable as presented, and the oral defence is acceptable. The only alterations to be made are grammatical, labeling, numbering changes or the correction of typographical errors.

In this case, all members of the examining committee shall sign the approval pages. A "pass" grade is submitted to the Office of the Registrar for the student's thesis, project or practicum.

b. Pass with Minor Revision

This decision is selected when the thesis, project or practicum is acceptable subject to minor revision, and the oral defence is acceptable. Minor revisions are defined as any change beyond the correction of typographical errors that entails the reorganization of portions of the manuscript or the rewriting of minor portions of the thesis. It is within the discretion of the examining committee to determine whether the quantity or number of minor revisions proposed make the outcome "pass with major revisions" more appropriate.

In this case, all members of the examining committee, except the supervisor, shall sign the approval pages.

The supervisor shall sign the approval pages when the thesis, project or practicum has been amended to include the changes that were requested by the examining committee. A "pass" grade is submitted to the Office of the Registrar for the student's thesis, project or practicum.

The Office of Graduate Programs must receive confirmation that the thesis, project or practicum has been amended to include the changes that were requested by the examining committee by the last day of the semester in which the oral examination took place. If this deadline is not met, registration for the subsequent semester is required in order to maintain continuous registration (See 2.2.1).

c. Pass with Major Revision

This decision is selected when the thesis, project or practicum is acceptable subject to major revision, and the oral defence is acceptable. Pass with major revisions means that a complete chapter or chapters must be rewritten, additional data is to be presented and/or interpreted, or the general format must be changed. Alternatively, the cumulative number of minor revisions is sufficient to merit a pass with major revisions.

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In this case, only the chair of the examining committee shall sign the approval pages. The supervisor shall supervise the revision of the thesis, project or practicum. When the revisions have been completed and have been approved by the supervisor, the supervisor shall distribute the revised thesis, project or practicum to the rest of the examining committee. If it is acceptable to the examining committee, the supervisor shall ensure that the approval pages are signed by each member of the examining committee. A "pass" grade is submitted to the Office of the Registrar for the student's thesis, project or practicum.

The Office of Graduate Programs must receive confirmation that the thesis, project or practicum has been amended to include the changes that were requested by the examining committee by the last day of the semester in which the oral examination took place. If this deadline is not met, registration for the subsequent semester is required in order to maintain continuous registration (See 2.2.1).

d. Adjourning of the Examination

This decision is selected when the examination is adjourned.

Reasons to adjourn the examination include, but are not limited to the following: further research or experimentation is required; the thesis is acceptable but the student has failed the oral defence; or the external examiner casts the lone dissenting vote. In the case of an adjourned examination, the candidate shall not be passed and no member shall sign the approval pages.

When an examination is adjourned, each member of the examining committee shall make a written report to the Office of Graduate Programs within 14 calendar days of the date of the oral examination. After reviewing these reports, the Vice President Research and Graduate Programs or designate sets a date for reconvening the examination. The Vice President Research and Graduate Programs or designate shall also determine whether or not the composition of the original committee is appropriate for the reconvened examination. The date for reconvening shall be no later than six months from the date of the first examination. If the date for reconvening falls outside the last day of the semester in which the adjourned oral examination took place, registration for the subsequent semester is required in order to maintain continuous registration (See 2.2.1).

e. Failure

This decision is selected when the thesis, project or practicum is unacceptable, and the oral defence is unacceptable.

If two or more members of the examining committee are opposed to passing the student, the student will not be recommended for the degree. In this case, the examining committee shall make a written report to the Office of Graduate Programs within 14 calendar days from the date of the oral examination outlining the reasons for this decision. A student who fails the oral examination has the right to appeal, and should consult with the Office of the Registrar regarding the appropriate procedures.

4.5.5 Consequence of Failed Examination A student who fails the oral examination twice shall be Required to Withdraw from their Graduate Program.

4.5.6 Students who are awarded a pass decision with minor or major revisions will be required to submit a corrected thesis, which has been approved by the supervisory committee and/or external examiner, if applicable, to the Office of Graduate Programs by the date stated on the outcome of defence form. Students who do not submit a corrected thesis or fail to provide revisions which are acceptable to their examining committee will be deemed to have failed the defence and will not be recommended for the award of their graduate degree.

4.6 Degree Completion and Graduation

4.6.1 The University Senate grants degrees at the end of each semester. Each candidate for a degree must complete an Application for Graduation form and must pay the graduation fee (see Fees Section). Application for Graduation forms are available in the Office of the Registrar or online at www.unbc.ca/graduate-programs.

4.6.2 The deadline for completing all requirements for the degree is the final business day in April for the Convocation ceremony in May.

4.6.3 Students can be considered for the awarding of a degree only when all of the following requirements have been satisfied:

- a. Completion of the program of study and meeting the grade point average requirements for the degree;
- b. Submission of three final copies of the thesis, or two final copies of the project, or practicum report. Regulations governing proper submission are set out in the *Formatting Guidelines for Graduate Dissertations, Theses, Projects & Practicum Reports*. Only the latest version of these instructions is valid. Students should obtain a copy from the Office of Graduate Programs or from the Graduate Programs website at www.unbc.ca/graduate-programs;
- c. Signing of the approval pages for the student's thesis, project or other scholarly work by the supervisor;
- d. Submission of an Application for Graduation form to the Office of the Registrar and an official degree audit completed by the University; and
- e. Payment of all outstanding fees. Those students who have outstanding accounts will not receive their degree parchment or be issued transcripts. Students should be aware of the semester fee payment schedule for graduate degrees (see Fees section).

5.0 Appeals

Appeals are heard by the Senate Committee on Student Appeals and are not subject to further appeal. Further information may be obtained from the Office of the Registrar. Please refer to the *Academic and Non-Academic Conduct Student Policy* and the *Student Appeals Procedures* for further information.

6.0 Research Services

All matters concerning the administration of research grants and contracts are handled by the Office of Research, to which inquiries

concerning research policies and procedures should be directed. Students whose research falls within the University definition of research involving human and non-human subjects and other ethical and safety issues must receive prior approval from the appropriate screening committee. Regulations on these issues may be obtained from the Office of Research. The Office of Research should be contacted for further details concerning research-oriented services offered to graduate students.

7.0 Regulations Governing Doctoral Programs

The Calendar regulations listed below apply to Doctoral students as well as to Master's students:

- General admission;
- GRE requirements;
- Admission to non-degree coursework;
- Auditing graduate courses;
- English requirements for international students;
- Registration procedures and status;
- Student responsibilities; and
- Academic performance.

In addition, Doctoral students are subject to the regulations that follow:

7.1 Admission to Doctoral Degrees

7.1.1 Admission to a Doctoral program normally requires a Master's degree or equivalent from a recognized institution. Admission to a Doctoral degree program requires evidence that the applicant is capable of undertaking substantial original research. Such capability will be judged partly by means of three external assessment reports sent directly to the Office of the Registrar by qualified referees.

7.1.2 Admission to a Doctoral program will require a Cumulative GPA of 3.33 (B+) from the Baccalaureate and Master's degree, to be calculated over the last 30 credit hours of graded academic coursework.

Note: Higher entrance standards than those outlined in this section may be set by individual doctoral programs.

7.1.3 The Vice Provost Student Recruitment or designate may approve the admission of an applicant to a Doctoral program without a Master's degree if the applicant has received a Baccalaureate degree from a recognized institution with a cumulative GPA of at least 3.67 (A-) and has completed at least two semesters of a Master's degree program at UNBC with a cumulative GPA of at least 3.67 (A-).

7.1.4 Continuation to a Doctoral Program Students enrolled in a Master's program at UNBC may continue to a Doctoral program prior to completion of the Master's degree. Students may apply to be transferred to Doctoral status no sooner than two semesters after initial registration in the Master's program at UNBC. After a review, which must include an evaluation by the student's supervisory committee, the Program will recommend to the Vice Provost Student Recruitment or designate one of the following:

- a. admission to the Doctoral program without completion of a Master's program;
- b. admission to the Doctoral program but with concurrent completion of all requirements for a Master's degree within one semester from the date of transfer;
- c. admission to the Doctoral program following completion of the requirements for the Master's degree; and
- d. refusal of admission to the Doctoral program.

Students admitted to a Doctoral program under 7.1.4.a must complete courses from the Master's and Doctoral programs as recommended by the existing Supervisory Committee and approved by the Vice Provost Student Recruitment or designate.

Students admitted under 7.1.4.b who do not complete the requirements for the Master's degree within the one semester limit will lose their status in the Doctoral program and be returned to Master's status.

Students admitted to a Doctoral program under 7.1.4a, but who are not continuing in the Doctoral program, may re-register as a candidate for the Master's degree, provided that work to date has met the standards of the Master's program and the candidacy examination has not been attempted.

7.1.5 No more than four full-time tuition fee units or the equivalent for part-time students will be credited in such cases towards the fees for the Doctoral program.

7.1.6 Part-time doctoral work is not feasible in some areas because of the divergent nature of academic disciplines. Accordingly, no Program is obligated to offer part-time doctoral work.

7.2 Minimum Requirements

The minimum requirement for a Doctoral degree is 24 credit hours of coursework beyond the Master's level, or 36 credit hours of coursework beyond the Bachelor's level, and satisfactory completion of the prescribed program. Individual programs may require more credit hours of coursework.

7.3 The Dissertation

A Doctoral program requires a broad and comprehensive knowledge of the field or fields of study, such knowledge to be demonstrated through a candidacy examination. It also requires the completion of a research project culminating in a dissertation which meets the requirements and standards of Graduate Programs. This dissertation must contain original work, and must be a significant and original contribution to knowledge in the candidate's field(s) of study. It must contain evidence of broad knowledge of the relevant literature, and must demonstrate a critical understanding of the works of scholars eminent in the field(s) related to the dissertation. The dissertation should, in the opinion of scholars in the field(s), merit publication, in whole or in part.

The general style and form of dissertations may differ from program to program, but all dissertations must be presented in a form which

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constitutes a connected and continuous text. The dissertation may contain material previously published by the candidate, whether alone or in conjunction with others. Such previously published material must be fully integrated into the dissertation. In such cases, the candidate's own work must be clearly distinguished from that of other researchers. The candidate is responsible at the final oral examination for defense of the entire contents of the dissertation.

Before beginning to write the dissertation, the candidate should obtain a copy of the *Formatting Guidelines for Graduate Dissertations, Theses, Projects & Practicum Reports* from the Office of Graduate Programs; this document specifies the academic and technical requirements necessary to ensure that the work is acceptable to the University and to the National Library of Canada.

7.4 Language Requirements

A Doctoral program may require a reading knowledge of one or more languages other than English. Language requirements will be set for individual students by their supervisory committees according to the regulations of the Programs and shall as a rule be geared to the individual research requirements of each candidate. Where language requirements are set, they shall be considered part of the student's program, and must be met at the latest before the student defends the dissertation.

7.5 Course Transfer

On the recommendation of the Program concerned, the Vice President Research and Graduate Programs or designate may accept courses taken at other recognized universities for credit towards a Doctoral program. However, at least half of the courses taken for the degree must be taken as a graduate student at UNBC.

7.6 Integrated Courses

Doctoral students will not receive degree credit for more than six credit hours of integrated delivery coursework (see Section 1.8.1).

7.7 Time Limit

The maximum time for completion given below is not intended to be the normal time for completion. It is intended to take into account a wide variety of extraordinary circumstances and events that may delay completion.

7.7.1 Normally, a student proceeding to a Doctoral degree must complete all the degree requirements within seven consecutive years (84 consecutive months) from the date of first registration in the program. If the student has transferred from a Master's program, completion is required within seven years of the date of the first registration in the Master's program.

7.7.2 If a degree is not awarded within seven years of the first registration, the student will be withdrawn from the program. Under exceptional circumstances, time extensions may be granted by the Vice President Research and Graduate Programs or designate. Such requests for time extension must be made in writing to the Office of Graduate Programs prior to the end of the semester in

which the student's time limit expires. The request must include a timeline for the completion of the degree, accompanied by supporting documentation from the student's supervisor.

7.7.3 A time extension is approved for one semester with the expectation that all outstanding degree requirements of a student's graduate program (including the defence and thesis corrections) are completed within this period of time. Only in exceptional circumstances are further time extensions granted. Students who fail to complete at the end of a time extension are required to withdraw from their graduate program.

7.7.4 Residency Requirement A student with a Master's degree registering in a Doctoral program must pursue studies under the direction of a faculty member as a full-time student for at least two full semesters within 24 consecutive months of initial registration.

7.8 Academic Supervision (Doctorate)

7.8.1 Supervision Each Doctoral candidate has, at the time of their application for admission, identified and gained the agreement of a member of faculty to act as supervisor. Subject to an offer of admission to the program, the agreement is approved by the Vice President Research and Graduate Programs or designate.

The Supervisor must be aware of, and adhere to, the various and relevant university regulations; must provide guidance to the student on the nature of research, the standards required, the adequacy of the student's progress, and the quality of the student's work; and must be accessible to the student to give advice and constructive criticism.

The Supervisor and student must maintain contact through regular meetings. Supervisors who expect to be absent from the University for an extended period of time (including during sabbaticals) must make suitable arrangements (including the appointment of a temporary replacement if appropriate) with the student and the Chair of the program, or if applicable the chair of graduate committee for the continued supervision of the student, or must request that the Program or College nominate another Supervisor to be approved by the Vice President Research and Graduate Programs or designate.

A member of a supervisory committee who has an adjunct or emeritus position with UNBC cannot be the sole supervisor of a graduate student. A faculty member who leaves UNBC cannot remain as a sole supervisor for a graduate student. The chair of the degree program will be expected to ensure that a new supervisor or co-supervisor is appointed from existing faculty. All such changes require the approval of the Vice President Research and Graduate Programs or designate who may recommend further changes of the supervisor or supervisory committee.

7.8.2 Supervisory Committee Each student has a supervisory committee nominated by the chair of the program, or if applicable, the chair of the graduate committee and approved by the Vice President Research and Graduate Programs or designate. The chair of this committee will be the supervisor.

The duties of the committee include recommending a program of study chosen in conformity with degree program requirements,

supervising the dissertation, and participating in a final oral examination. The committee may conduct other examinations, and recommends to the Vice President Research and Graduate Programs or designate whether or not a degree shall be awarded to the candidate.

The composition of the Doctoral supervisory committee is at least four members, including the academic supervisor. At least one member of the committee must be from outside the Program in which the candidate's research is being carried out.

7.9 Doctoral Candidacy Examination

Within two years of registration as a Doctoral candidate and at least six months before the final oral examination, a student must pass a candidacy examination. The purpose of this examination is to test the student's understanding of material considered essential to the completion of the degree, and to test the student's competence to conduct the research which will culminate in the dissertation. The candidacy examination may be written or oral, or both, at the discretion of the Program. Individual graduate programs or supervisory committees may also require other examinations in addition to the candidacy examination. Examples of such examinations would be those to test competence in languages other than English, in statistics, in computing, or in other research skills. In some graduate programs there may be comprehensive examinations to be completed before the candidacy examinations, to test knowledge in the field.

The candidacy examination is a requirement of the Office of Graduate Programs, and cannot be waived by any graduate program. However, the form, content, and administration of such examinations are determined by the individual graduate programs. While there may be wide variety in the content of candidacy examinations, the manner in which the examinations are constructed, conducted, and evaluated must be consistent within individual graduate programs.

Graduate programs are responsible for providing students with a written statement of procedures, requirements, and regulations governing candidacy examinations. This information must be provided to Doctoral students at their initial registration, and must be on file with the Office of Graduate Programs.

When a student has successfully completed the candidacy examination, the chair of the program, or if applicable, the chair of graduate committee is responsible for sending confirmation signed by all members of the supervisory committee to the Vice President Research and Graduate Programs or designate.

Students who fail any components of the candidacy exam may be allowed a second attempt to pass the outstanding components. Normally, the second attempt will take place within a six-month period from the date of the first examination, as set by the graduate program. Failure of the second attempt will result in the student being Required to Withdraw from the program.

7.10 Final Oral Examinations (Doctorate)

All Doctoral programs require a final oral examination. The regulations

for such examinations are the same as for Master's programs, except as noted below.

7.10.1 Formation of the Examining Committee The final oral examining committee for the Doctoral degree shall consist of the Vice President Research and Graduate Programs or designate as Chair, the supervisory committee, and an external examiner from outside the university, who will normally attend the oral examination. At a minimum, the people attending the defence in person must be the student, supervisor (or one of the co-supervisors), the external examiner and one committee member.

Before the dissertation is forwarded to the external examiner, doctoral supervisory committee members shall each declare in writing to the supervisor and the Office of Graduate Programs either that the dissertation is of adequate substance to warrant that the student proceed to the final examination or that the dissertation is unsatisfactory and that the student should not be allowed to proceed to the final oral examination. An evaluation of the dissertation's merits and deficiencies should accompany the declaration. A declaration of satisfactory does not constitute final approval of the dissertation. A judgement of unsatisfactory performance by a doctoral supervisory committee member will be reviewed by the Vice President Research and Graduate Programs or designate, but normally constitutes grounds for not sending a copy of the dissertation to the external examiner.

7.10.2 External Examiner A distinguished scholar with particular experience, both in the field of the dissertation research and in supervising doctoral students, shall be chosen as the external examiner.

The proposed external examiner must be in a position to review the dissertation objectively and to provide a critical analysis of the work and the presentation. It is therefore essential that the external examiner not have a current or previous association with the student, the supervisor, or the graduate program which would hinder this type of objective analysis. The external examiner should hold a PhD and an appointment with a recognized university or be a recognized scholar in their field, and have no past, current or planned involvement or association with the student or the supervisor. The supervisor and the student must submit a declaration to the Office of Graduate Programs that neither party has performed collaborative research work with the external examiner within the last five years. The external examiner is required to attend the defence in person.

The external examiner is from outside UNBC and has no association with the program, supervisor or doctoral student. Ideally, they should be at associate or full professor rank if they are at a university or be of comparable stature if they are not at a university.

The student's supervisory committee recommends the external examiner, and the supervisor then makes an informal inquiry as to the prospective external examiner's willingness to serve. If the individual is prepared to serve, the nomination is then made by the supervisor supported by the appropriate Chair to the Vice President Research and Graduate Programs or designate who makes the formal invitation to the external examiner.

Graduate Programs Admissions and Regulations

The formal request for defence shall be made to the Office of Graduate Programs no less than eight weeks before the chosen date of defence. The application will only be considered for approval if certain conditions have been fulfilled, including the approval of the external examiner and the identification of an appropriate defence date.

The Vice President Research and Graduate Programs or designate will request that the external examiner provide a detailed report on the merits and deficiencies of the dissertation, as well as an overall evaluation using the same categories as those used by internal examiners. The external examiner is requested to present the report to the Office of Graduate Programs within one month of the receipt of the dissertation. Adequate time must be allowed for the transmission of the dissertation and the receipt of the report. A judgement of unsatisfactory performance by the external examiner will be reviewed by the Vice President Research and Graduate Programs or designate, but normally constitutes a failed attempt of the dissertation defence.

7.10.3 Changes in the Examining Committee The Vice President Research and Graduate Programs or designate must also approve changes to the membership of the examining committee. No changes shall be made to the examining committee after the dissertation is distributed by the Office of Graduate Programs to the committee for examination. Should the dissertation not be submitted for examination within 12 months after the appointment of the examining committee, the committee appointment will lapse and a new appointment shall be necessary.

7.10.4 Approval for Advancement to the Oral Examination The Office of Graduate Programs must receive all examiners' reports at least two weeks prior to the intended date of the oral examination.

7.10.5 Guidelines for Advancement to the Oral Examination When considering the candidate's advancement to the final oral examination, the doctoral supervisory committee members may wish to use the following guidelines:

- a. If all the reports judge the dissertation to be satisfactory, advancement to the oral examination should be automatic. The Office of Graduate Programs shall send copies of all reports to each doctoral supervisory committee member and to the candidate.
- b. If one or more of the reports judge the dissertation to need major revisions, the Office of Graduate Programs shall send copies of all the reports to the doctoral supervisory committee members and the Graduate Program Chair. Two copies of all the reports are sent to the supervisor who shall provide one copy to the candidate. The doctoral supervisory committee members should strive to provide the supervisor and the candidate with specific advice about the nature and scope of the revisions required and any other pertinent matters (such as the time that should elapse before the dissertation will be accepted for reconsideration).
- c. If the doctoral supervisory committee members judge an unfavourable report by an external examiner to be unwarranted, they may recommend, through the Graduate Program Chair, that the Office of Graduate Programs submit the dissertation to a second external examiner.

7.10.6 Requirements Prior to Oral Examination Scheduling

The examination will normally be held at the Prince George Campus. Exceptions must have the unanimous agreement of all doctoral supervisory committee members and the student. Normally, the oral examination shall be open to all members of the UNBC community. In exceptional cases, the final oral examination may be closed, for example, when the results of the dissertation research must be kept confidential for a period of time. In such cases, the doctoral supervisory committee members and Graduate Program Chair shall recommend such action to the Vice President Research and Graduate Programs or designate who may then approve that the final oral examination be closed to all but the examining committee and the Vice President Research and Graduate Programs or designate.

Candidate Information At least two weeks prior to the oral examination, the candidate must submit to the Office of Graduate Programs the following information: biographical data (where and when born); outstanding points in career, awards, etc.; list of degrees obtained (where and when); the exact title of the dissertation; an abstract of the dissertation (not more than 350 words); and a list of publications. This information is used to advertise the oral examination. **Note:** The above documentation should be submitted in electronic form.

Notice of Examination Except in the case of a closed examination and provided the information is received in sufficient time to meet publication deadlines, a notice of the candidate's oral examination will be published. Students, staff and faculty members who are not members of the examining committee are invited and encouraged to attend the oral examination but are not permitted to participate in the formal questioning.

7.10.7 Format of the Examination The first part of the oral examination shall consist of 25- to 30-minute oral presentation by the candidate to include a summary of the salient points of the research, which is followed by the questioning and examination of the candidate by the examining committee. The question period is normally a maximum of two hours in duration. The initial questioner will be the external examiner, followed, if required, by the members of the supervisory committee. There will be two rounds of questions in total by all members of the examining committee followed by a final opportunity from the external examiner to ask any outstanding questions.

The Chair of the oral examination may exercise discretion in allowing questions from the audience following completion of the formal examination.

The adjournment of a defence at any point is under the discretion of the Chair of the defence.

7.10.8 Decision of the Committee Following completion of the formal examination, the candidate and audience are required to withdraw from the examination room. The examining committee members will consider their report and will also determine the nature of and procedures for approval of any revisions that will be required prior to submission of the dissertation.

The examining committee may exercise its discretion on the following matters: who must approve the required revisions, time limits for the completion of revisions, the necessity for a second oral examination, and any other matters. These matters should be summarized in a memorandum sent to the student by the Supervisor. Before being sent to the student, the memorandum should be circulated to the examining committee members for confirmation. It shall be the responsibility of a designated member of the oral examination committee (normally the supervisor) to ensure that all such revisions are completed before the final copy of the unbound dissertation is submitted to the Office of Graduate Programs. The candidate will be recommended for the PhD degree when the dissertation, accompanied by a signed statement from the supervisor that the required revisions are completed, is submitted to the Office of Graduate Programs, providing all other degree requirements have been satisfied.

- d. Submission of an Application for Graduation form to the Office of the Registrar and an official degree audit completed by the University; and
- e. Payment of all outstanding fees. Those students who have outstanding accounts will not receive their degree parchment or be issued transcripts. Students should be aware of the semester fee payment schedule for graduate degrees (see Fees section).

7.10.9 Report of the Committee The final judgment of the examiners on the dissertation and the oral examination shall be reported to the Vice President Research and Graduate Programs in the term "pass" or "fail". The criteria for the nature of the pass or fail are as previously detailed in section 4.5.4. The dissertation must be passed by the external examiner and a majority of members of the examining committee. In the case of a failure for the dissertation at the PhD level a detailed written report will be prepared by the Chair and made available to the candidate and submitted to the Office of Graduate Programs.

A student who receives a failure on either the dissertation or the oral examination twice shall be Required to Withdraw from their doctoral program.

7.11 Degree Completion and Graduation

7.11.1 The University Senate grants degrees at the end of each semester. Each candidate for a degree must complete an Application for Graduation form and must pay the graduation fees (see Fees section). Application for Graduation forms are available in the Office of the Registrar or online at www.unbc.ca/graduate-programs.

7.11.2 The deadline for completing all requirements for the degree is the final business day in April for the Convocation ceremony in May.

7.11.3 Students can be considered for the awarding of a degree only when all of the following requirements have been satisfied:

- a. Completion of the program of study and meeting the grade point average requirements for the degree;
- b. Submission of three final copies of the dissertation. Regulations governing proper submission are set out in the *Formatting Guidelines for Graduate Dissertations, Theses, Projects & Practicum Reports*. Only the latest version of these instructions is valid. Students should obtain a copy from the Office of Graduate Programs or from the Graduate Programs website at www.unbc.ca/graduate-programs/graduate-forms;
- c. Signing of the approval pages for the student's dissertation by the supervisor;

Graduate General Regulations and Policies

I. Formal Relationship Between the University and Students

Upon registering and while registered in a for-credit course, program of study or audited course offered by or through the University of Northern British Columbia (UNBC), a Student enters a formal relationship with the University by which they

- acknowledge the right of the University to set acceptable standards of Academic Integrity and of Academic and Non-Academic Conduct;
- accept and agree to be subject to the University's Policies, Rules and Procedures; and
- accept the right of the University to investigate, impose discipline and determine consequences for Academic or Non-Academic Conduct found to have violated the University's standards, Policies, Rules or Procedures.

By registering to become a student at UNBC, a Student agrees to enter the formal relationship outlined above.

Students are required to inform themselves of UNBC's policies, procedures, rules and regulations, and any subsequent amendments in place at the University. Please refer to the following website to access UNBC's Policies and Procedures: <https://www.unbc.ca/policy>.

II. UNBC's Core Values and Statement of Principles

1. UNBC is a place of research, teaching, and learning, where members of the University Community value inclusiveness and diversity, community, integrity, and academic excellence. These values are supported through an unwavering commitment to free expression and debate in an atmosphere of respectful interactions, safety and good conduct.
2. The University is committed to reconciliation and recognizing Aboriginal Ways of Knowing within the Academy. UNBC's Motto, *En Cha Huna*, meaning "they also live," sets a foundation of respect, and reflects a shared commitment to Responsibility, Reciprocity and Relationship in the interactions between students and the University Community as a whole.
3. All members of the University Community share the responsibility for the academic standards and reputation of the University. Academic Integrity is founded on values of respect for knowledge, truth, scholarship and acting with honesty. Upholding Academic Integrity is a condition of continued membership in the University Community.
4. The University strives, whenever possible, to take an educational and developmental approach to Academic and Non-Academic Misconduct, informed by knowledge and respect for mental health, well-being, cultural differences, and principles of reconciliation.

5. The University adheres to the principles of Procedural Fairness and Natural Justice in working to ensure that Students, Faculty and Staff are aware of their applicable rights and responsibilities with respect to Academic and Non-Academic Conduct, in investigating alleged misconduct, and when taking steps to establish or impose consequences.

III. Academic Conduct and Non-Academic Conduct

UNBC is committed to creating a scholarly community characterized by free expression, open debate, critical and free inquiry, and diversity of thought and perspective; the orderly and safe enjoyment of University facilities by all members of the University Community; and the proper functioning of the University and protection of University property.

The Academic and Non-Academic Conduct Student Policy defines students' responsibilities as academic community members, defines inappropriate student conduct, and provides procedures and outcomes to be invoked if students engage in such behaviour. Each student is responsible for their conduct that affects the University community.

A Student may appeal a decision made or disciplinary measure imposed in response to a finding of Academic Misconduct. A student may appeal a suspension imposed in response to a finding of Non-Academic Misconduct. In accordance with the *University Act*, the appeal is to the Senate Committee on Student Appeals.

For more information on academic conduct and non-academic conduct and the appeals processes at UNBC visit <https://www.unbc.ca/policy>.

IV. Harassment, Discrimination and Diversity Initiatives

UNBC is committed to providing a working and learning environment in which all students, staff and faculty are treated with respect and dignity. UNBC acknowledges the right of all individuals in the University community to work or learn without discrimination or harassment. An approved policy, available at www.unbc.ca/policy, applies to all members of the UNBC community.

V. 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 enrollment demand at postsecondary institutions. The increased emphasis on accountability for public investment means that it is also important to understand 'outcomes'. In order to conduct 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, and enrollment information.

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 for statistical purposes only, and the confidentiality provisions of the Statistics Act prevent the information from being released in any way that would identify a student.

Students may contact Statistics Canada via e-mail if they have any questions: statcan.PSIS-SIEP.statcan@canada.ca.

VI. BC Freedom of Information and Protection of Privacy Act

UNBC gathers and maintains information used for the purposes of admission, registration and other fundamental activities related to membership in the UNBC community and attendance at 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, is protected and used in compliance with the BC Freedom of Information and Protection of Privacy Act (1996).

VII. General Academic Regulations

Note: Graduate students are directed, as well, to the Graduate Programs Admissions and Regulations section of this Calendar.

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, to alter, or to 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. Full-Time Studies

A full-time graduate student during any one of the academic semesters is one who is either enrolled in courses totaling a minimum of 6 credit hours during a single semester or working on a dissertation, thesis, or comprehensive examination (Master's level only) project during a semester (see Graduate Programs Admissions and Regulations section).

4. Part-Time Studies

A part-time graduate student during any one of the academic semesters is one who is enrolled in courses totaling less than 6 credit hours during a single semester, and who is not working on a dissertation, thesis or project (see Graduate Programs Admissions and Regulations section).

5. 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.

6. Official and Unofficial Transcripts

Official transcripts are confidential and are only released on written request from 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'. 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 mid-term examinations.

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

Requests for transcripts can be made online by using the login link at www.unbc.ca or by completing a Transcript Request Form available in the Office of the Registrar. There is a three business day turnaround for transcript requests.

Unofficial transcripts are available to students directly through Online Services at www.unbc.ca.

7. Evaluation of Transcripts

The evaluation of transcripts is the responsibility of the Office of the Registrar.

8. Criminal Records Review

Under the requirements of the Criminal Records Review Act (2014) UNBC requires, as part of the application process, criminal record 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 Graduate programs:

- Health Sciences (MSc)
- Disability Management (MA)
- Counselling (MEd)
- Nursing (MScN, MScN:FNP)
- Social Work Programs (MSW)

9. 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 Graduate 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.

10. Registration After the Published Revision Deadline Date

No graduate student is permitted to alter their registration for any course after the last date to revise registration as published in the Calendar except on the express written permission of the instructor and the Vice President Research and Graduate Programs or designate.

11. 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.

12. Repeating Courses

Graduate students may not repeat graduate courses except under exceptional circumstances and only with the approval of the Vice President Research and Graduate Programs or designate on the recommendation of the supervisory committee. In the event that a course is repeated, it is the second grade earned which will be used in the grade point average calculation.

13. Conferral of Degrees

All students who expect to receive a credential must apply to graduate. Students are eligible to graduate at the end of each semester. All applications for graduation must be received by the Office of the Registrar before each deadline, accompanied by the appropriate (non-refundable) graduation fee.

14. Graduation Constraints

1. Students must submit their Application for Graduation Form in their final semester alongside their request for oral examination, which would normally be no later than November 1, March 1, and July 1 to graduate in the September, January, and May semesters, respectively.
2. Students who have any outstanding obligation to the University are not permitted to graduate. 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.

15. 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 a 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.

16. 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 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.

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 12 (Repeating Courses) for the treatment of repeated courses in GPA calculations.

Grading System – Graduate Students

UNBC Grade Point	Letter Grade	Percentage	Definition/ Standing
4.33	A+	90 -100%	
4.00	A	85-89.9%	Excellent
3.67	A-	80-84.9%	
3.33	B+	77-79.9%	
3.00	B	73-76.9%	Good
2.67	B-	70-72.9%	

Passing grade is B- for all courses taken towards a graduate degree. Courses in which achievement is less than B- are assigned a letter grade of F. Individual programs may set higher standards.

The following are not included in academic average:

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

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.	PSYC 600-4	B	3.0	4 credit hours x 3.0	= 12.00
2.	PSYC 610-3	A+	4.33	3 credit hours x 4.33	= 12.99
	Total			7 credit hours	= 24.99
	Semester GPA: 24.99/7 = 3.57				

The CGPA provides the numerical value used to determine good academic standing or academic probation.

Graduation Requirement: In order to graduate, a student must have the minimum cumulative grade point average required by the student's program, and also have satisfied non-course-based requirements of the program.

17. 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 CGPA.

18. Academic Distinction

Each year a very small number of students will be graduated with Distinction. Selection criteria take into account the student's overall academic record and, as appropriate, the quality of the thesis; and are applied by a Dean's Committee on Graduate Honours chaired by the Vice President Research and Graduate Programs or designate. Students do not apply for graduation with distinction.

19. Examinations

- When a graduate course has a final examination, the examination shall normally be worth at least 25% of the total course marks.
- With the exception of laboratory, clinical or practicum-based final examinations, tests worth, aggregate, more than 10% of the final grade must not be administered during the final week of classes. During the last two weeks of classes, major papers or projects must not be newly assigned.
- 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 given during the scheduled examination period.
- Final exams are no longer than three hours in duration. Exceptions must be approved by the Program Chair.
- College Deans may make exceptions to this policy in extraordinary cases. Such exceptions must be made at the beginning of the semester, and have the approval of the Program Chair.

20. Conduct in Examinations

Students must be prepared to present appropriate identification upon entering the examination room. Appropriate identification is defined as

Regulations and Policies

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 the possession of the student in the examination room (see Regulation 25 (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.
- c. Candidates must not communicate in any way with other candidates in the examination room.
- d. Candidates must not leave their seats, except when granted permission by the proctor.
- e. Candidates must turn in all materials, including rough work, upon leaving the examination room.
- f. Food and beverages other than water are not permitted in the examination room.

21. 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.

22. 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 and notify their instructors of a conflict at least two weeks prior to the examination period.

23. 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 direct 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.

24. Deferred Examinations and Grades

Students may apply for a deferred examination or a deferred status to complete required term work if medical or compassionate reasons prevent attendance at an examination or completion of assignments. Written application for a deferral, along with supporting documentation and written approval from 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, Academic Regulation 23 (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.

25. Academic Misconduct

Any academic conduct that violates *The Academic and Non-Academic Conduct – Student Policy* is a serious offense. The formal processes set out in the following three documents: *Academic and Non-Academic Conduct – Student Policy*, *Academic and Non-Academic Misconduct Procedures*, and *Appeals Procedures* are to be followed. For more information on student academic conduct at UNBC, visit <https://www.unbc.ca/policy>.

26. Appeals Process

All students have the natural and reasonable right to appeal grades given during the term, the final grade of a course, requirement to withdraw and decisions the University makes regarding academic and non-academic misconduct. The Senate Committee on Student Appeals is the final adjudicator in such matters. For more information on student appeals, please visit <https://www.unbc.ca/policy>.

27. Appeals Concerning Academic Relationships

Appeals may arise out of other difficulties involving the academic relationship between students and faculty members. It is sometimes necessary, for instance, for a student to change supervisors, or a student may have other difficulties with a supervisor, or a student may have difficulties of a personal nature with a faculty member. Because the personal and professional relationship between student and faculty member can become entangled, and because problems of this sort can be perceived as potentially career-threatening by a student, there is a need for a process by which a student can seek mediation and resolution in such cases. Because each case is unique, the following procedure shall be followed:

- a. A Student experiencing such difficulties should attempt to resolve them informally at the level of the individual Instructor or the Program Chair.
- b. If this cannot be done, or if the nature of the problem is such

that the student does not wish to attempt it, the student should seek the advice of the Vice President Research or designate who shall follow one of the following procedures:

- i. If the Vice President Research thinks it advisable, the Vice President shall seek to bring about a solution through informal means;
- ii. After assessing the evidence that is presented, if in the opinion of the Vice President Research the complaint is invalid, the Vice President Research shall advise the student of this opinion, and take no further action;
- iii. After assessing the evidence that is presented, if in the opinion of the Vice President the complaint is valid but an informal solution is unlikely, or if the Vice President has attempted an informal solution and has failed, he/she shall advise the student of this fact;
- iv. In the case of an appeal of a final grade, the student may choose not to proceed further, or the student may choose to proceed with the matter. In the latter case, the student shall make a written complaint, through the Registrar, to the Senate Committee on Student Appeals which shall consider it according to its rules of procedure.

28. 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 circumstances. In such circumstances, classes and examinations are formally cancelled and rescheduled. Assignments due on the date of the closure must be submitted on the next day that the University is open.

Business Administration (MBA)

Website: www.unbc.ca/commerce/mba

The MBA is recognized worldwide as the hallmark of the management professional. Graduates of the UNBC MBA program develop a well-rounded understanding of the skills needed by leaders of private and public sector organizations, and the challenges facing enterprises.

The program is designed to allow professionals to complete their degree within two years while continuing to work full-time. During the first year of the program, students are introduced to the major disciplinary areas within the field of business, including strategy, economics, accounting, finance, organizational behaviour, marketing, and operations management. This part of the program builds the broad base of knowledge and skills required by senior management.

During the second year of the program, students gain a broad understanding of the global, legal and ethical environment in which organizations operate, and of the challenges facing organizations. In the context of northern British Columbia, there are economic, social, and environmental challenges confronting small and rural communities participating in a resource-based economy. Through the development of leadership and management capabilities, the MBA Program helps the communities and organizations achieve sustainable success and prosperity in a changing and complex world.

Course participants have the opportunity to focus on individual interests during the MBA Project. Working under the supervision of a faculty member, students complete a major research project, applying relevant theory to the study of a substantial organizational problem or issue.

The MBA Program coursework normally includes work assessed on an individual and group basis. Enterprise problems are seldom completely resolved through individual effort, and group work reinforces and enhances individual ability to work within multi-disciplinary teams.

Students come to the MBA Program with diverse backgrounds, a range of social and cultural perspectives, and different industry and business experiences. The MBA Program encourages this diversity as it fosters a rich learning environment.

Admission Requirements

The number of spaces in the MBA Program each year is limited to facilitate quality interaction with faculty and to enrich learning for every student. Admission is by a selection process based on criteria described below.

In addition to the general admission requirements outlined in Section 1.0 of the Graduate Academic Calendar, candidates are required to provide:

- Evidence of a minimum of three years of work experience in a managerial or professional position;
- Three letters of reference from academics, colleagues, supervisors or significant clients;
- Demonstrated proficiency in English, as stipulated in Section 1.1 of the Graduate Programs Admissions and Regulations.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates), and at the School of Business web page at www.unbc.ca/commerce. The MBA Program accepts students for the September Semester.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Exceptional Admission

Under special circumstances, candidates who either lack a formal degree or do not meet the grade point average requirements, but who have other outstanding qualifications, such as a professional designation, may be eligible for admission. For these candidates, a personal interview is required. The personal interview is designed to assess the applicant's business skills and knowledge.

Required Courses for the First Year

COMM 603-3	Business and Corporate Strategy
COMM 610-3	Accounting
COMM 620-3	Corporate Finance
COMM 632-3	Organizational Behaviour
COMM 640-3	Marketing
COMM 650-3	Operations Management
COMM 652-3	Business Analytics
COMM 690-3	Canada's Asia-Pacific Gateway
ECON 608-3	Managerial Economics

Required Courses for the Second Year CHOOSE Option A or B

Option A

COMM 799-6	MBA Project
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Five of the following:

COMM 701-3	Strategy Implementation
COMM 703-3	International Business
COMM 735-3	Law, Governance and Ethics
COMM 736-3	Human Resource Management and Industrial Relations
COMM 737-3	Leadership Practice and Development

COMM 751-3 Project Management
 COMM 755-3 Management of Technology

Option B

COMM 701-3 Strategy Implementation
 COMM 703-3 International Business
 COMM 735-3 Law, Governance and Ethics
 COMM 736-3 Human Resource Management and Industrial Relations
 COMM 737-3 Leadership Practice and Development
 COMM 751-3 Project Management
 COMM 755-3 Management of Technology

Business Administration (MSc)

Website: www.unbc.ca/commerce/msc

The goal of the MSc Program in Business Administration is to educate and train business professionals with advanced research skills and extensive knowledge in a specialized area, e.g., accounting, finance, human resources management/organizational behaviour, marketing, operations management/international business.

These individuals meet a growing need in Northern British Columbia and beyond for professional skills in establishing, expanding, and managing all types of business enterprises that have long-term sustainability and contribute to the economic growth and vitality of the North and the country at large. The students in the program come from a wide variety of backgrounds, including business, resource development, mathematics, and the social sciences.

The MSc is a research-based degree with a thesis and is different from the MBA degree which is a terminal and course-based degree. The MSc in Business Administration is normally completed in two years.

Admissions

To be eligible for admission, students are required to have an acceptable academic standing, i.e., a GPA of at least 3.00 (B) in the work of the last 60 credit hours, in a four-year (120 credit hours) baccalaureate degree or equivalent from a recognized institution.

The MSc in Business Administration requires students to complete graduate-level courses in statistical and research methods that in turn are grounded in undergraduate-level preparation in mathematics and statistics. Accordingly, all students admitted to the MSc in Business Administration must have sufficient preparation in mathematics and statistics equivalent to the Bachelor of Commerce degree at UNBC. Students without the necessary undergraduate preparation are required to complete these mathematics and statistics requirements before they are admitted to the MSc Program in Business Administration.

Additionally, students applying to the MSc Program in Business Administration who hold an undergraduate degree other than the BComm must have background preparation in their chosen area of MSc specialization (e.g., accounting, finance) equivalent to that obtained through the BComm degree.

Students without the necessary undergraduate preparation in their intended specialty area must make up this requirement through

Business Administration

undergraduate coursework before they are admitted to the MSc Program in Business Administration. Both sets of requirements (i.e., mathematics/statistics and content specialization in business) may be completed as part of a Pre-Entry Program for Admission to Graduate Studies, as set out by the Business Graduate Studies Committee and as approved by the Vice Provost Student Recruitment or designate.

The Business Graduate Studies Committee may recommend a conditional offer of admission contingent on completion of additional preparatory courses, but graduate courses within the MSc Program must not be started until the pre-entry coursework is completed.

Within the MSc Program students study and research topics in one of the specialized areas of Accounting, Finance, Human Resources Management/Organizational Behaviour, Marketing, or Operations Management/International Business.

Applicants to the MSc Program must apply to one of the specialized areas within the program and the area faculty will evaluate applications against the background preparation considered necessary for specialized study within the area. Students may apply to other areas of the Business program if their area of first choice is not available.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The MSc Program in Business Administration accepts students for the September Semester.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

The course of study has two major components: (1) 18 credit hours of courses to provide research methods and statistical knowledge and skills as well as substantive breadth of knowledge in business administration; and (2) 18 credit hours of courses to provide additional substantive depth in an area of specialized concentration that includes a Master's Thesis representing an original empirical investigation in the chosen specialized area of business administration.

Required Courses

COMM 662-3	Research Methodology
COMM 760-3	Seminar in Business Administration
COMM 762-6	Independent Research in Business Administration
COMM 763-12	Master's Thesis

Two courses from the following MSc Research Topics courses:

COMM 618-3	Accounting Research 3
COMM 626-3	Finance Research 1
COMM 627-3	Finance Research 2
COMM 628-3	Finance Research 3
COMM 637-3	Research in Human Resources Management/ Organization Behaviour
COMM 638-3	Research in Human Resources Management/ Organization Behaviour 2

COMM 639-3	Research in Human Resources Management/ Organization Behaviour 3
COMM 646-3	Marketing Research 1
COMM 647-3	Marketing Research 2
COMM 648-3	Marketing Research 3
COMM 656-3	Research in Operations Management/ International Business 1
COMM 657-3	Research in Operations Management/ International Business 2
COMM 658-3	Research in Operations Management/ International Business 3

Additional Required Courses

(taken in either first or second year)

STAT 671-3 An Introduction to Linear Modelling
and one of the following:

STAT 672-3	Survey Sampling Design and Analysis
STAT 673-3	Experimental Design and Analysis
STAT 675-3	Methods for Multivariate Data

The student and supervisor choose the additional STAT course from the above list to best fit the student's MSc program of study. More specifically, the three additional STAT courses align to the business disciplines within the MSc as:

STAT 672-3	(All business disciplines);
STAT 673-3	(Human Resources Management, Marketing, and Operations Management); and
STAT 675-3	(All business disciplines)

A different graduate-level statistics course may be taken from the School of Business or other UNBC department as an alternative to STAT 671-3, STAT 672-3, STAT 673-3, or STAT 675-3. Students select both required statistics courses in consultation with their supervisor and require the permission of the Chair of the MScBA Program.

Development Economics (MA Program)

Paul Bowles, Professor
 Fiona MacPhail, Professor
 Jalil Safaei Boroojeny, Professor
 Baotai Wang, Professor
 Karima Fredj, Associate Professor
 Amarjit Bhullar, Assistant Professor
 Shamaila Nawaz, Assistant Professor
 Bryan Bogdanski, Adjunct Professor

Website: www.unbc.ca/economics

Economic development remains a critical issue for more than three-quarters of the world's population who reside in countries classified as "low income" or "middle income." The causes and consequences of economic development remain contested issues. This academic program considers the changing global, regional and national contexts for economic development; the policy lessons that can be learned from comparative studies; and the tools required to enable development economists to contribute to the development process.

Economic development cannot be studied in isolation from other dimensions of development.

An understanding of poverty, for example, requires not only economic analysis but also an understanding of the insights provided by other social and health sciences. The training of a development economist must therefore expose students to interdisciplinary approaches to development.

The Master of Arts degree in Development Economics is available on a full-time or part-time basis. Students must complete all required work to meet the degree requirements in one of the following options: coursework only, project-based, and thesis option. Normally, students are initially admitted into the coursework only option.

Admission Requirements

Applicants to the UNBC Development Economics MA program must follow the admission requirements outlined in Section 1.0 of the UNBC Graduate Academic Calendar. Applicants normally should have a four-year undergraduate degree that is equivalent to a UNBC degree in Economics. In addition to these requirements, applicants must also provide a sample of written work (usually a senior-level undergraduate essay or research paper) as part of their application.

Entrance to the MA is competitive and only applicants with a record of excellence in their undergraduate work, strong letters of academic recommendation, and strong letters of intent are considered. In their letters of intent, applicants should demonstrate evidence of interest in

the MA's areas of specialization (Development Economics).

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Development Economics MA Program accepts students for the September or January Semester.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

The course of study is composed of a minimum of 25 credit hours for the coursework only and project options and a minimum of 28 credit hours for the thesis option.

Students in the coursework only option are required to complete coursework totaling 24 credit hours plus ECON 700. Depending on academic performance, students in this option may be eligible to apply to transfer to either the project or the thesis option after they have completed their first 12 credit hours of coursework (which must include at least 9 credit hours from required courses). Students wishing to transfer to the project or thesis option must obtain the support of a supervisor and of the Department Chair. Students approved to transfer to the project option must complete any remaining required courses and produce a detailed project proposal with bibliography, and successfully defend a formal oral examination, a 9-credit-hour project of a maximum of 50 pages in length. Students approved to transfer to the thesis option must complete any remaining required courses and produce a detailed thesis proposal and successfully defend in a formal oral examination, a 12-credit-hour thesis of a maximum of 75 pages.

In addition, any student who does not, at the time of entry to the program, have a course in econometrics at the undergraduate level are required to take ECON 312-3 (Econometrics) as part of their graduate degree program in order to meet graduate requirements. A minimum grade of B is required in such a course.

Required Courses

ECON 601-3	Global Economy and Development
ECON 604-3	Poverty, Inequality and Development
ECON 651-3	Microeconomic Theory and Applications
ECON 700-0.5	Graduate Colloquia*
ECON 710-3	Macroeconomic Policy for Development
ECON 712-3	Applied Econometrics

*All students must complete Graduate Colloquia ECON 700-0.5 twice during their course of study.

Additional requirements are based upon the option followed.

Coursework Only Option:

At least one of the following:

ECON 610-3	Health Economics
ECON 611-3	Cost-Benefit Analysis
ECON 625-3	Trade and the Environment
ECON 635-3	Financial Economics and Quantitative Methods

Students may take up to two of their elective courses from other graduate programs with the permission of the Chair of Economics.

Project Option:

ECON 798-9 Economics Project

Thesis Option:

ECON 799-12 Master's Thesis

Disability Management (MA Program)

Website: www.unbc.ca/health-sciences/disability-management

The program provides graduates with the knowledge and skills necessary to assist labour, management, insurance providers, employers, and employees with the development of successful work-entry or return-to-work strategies for persons with disabilities.

The program is attractive to students interested in integrating the fields of economics, community health, social work, psychology, education, and business. The combination of coursework, research, and the application of knowledge gives students a well-rounded, applied education in the field of Disability Management.

The program is available at the Prince George campus, either full-time or part-time, or on a part-time basis via distance delivery on the World Wide Web. Please see the information below and our website www.unbc.ca/health-sciences/disability-management for additional details.

Admission

Application deadlines can be found in the Graduate Programs Admissions and Regulations section of the Graduate Calendar at www.unbc.ca/calendar/graduate/admissions.

The Disability Management MA program accepts students for the September Semester.

In addition to meeting the admission application requirements outlined in Section 1.0 of the Graduate Admissions and Regulations, all applicants to the Disability Management MA program are required to submit a Criminal Record Check search prior to the first day of classes in their entry semester.

Domestic applicants must supply a Criminal Record Check search result after receiving an offer of admission and before the first day of classes. The search result is not required with the application. International applicants must submit a Criminal Record Check search result provided by their local police authority upon application, and will also be required to submit a British Columbia Criminal Record Check if offered admission. The Office of the Registrar will provide instructions to domestic and international applicants who have accepted offers of admission on how to complete a British Columbia Criminal Record Check.

Delivery Modes

Thesis Option

The Thesis Option consists of four components:

Core courses in Disability Management	12 credit hours
Research methods courses	6 credit hours
Electives	9 credit hours
Thesis (DISM 799-9)	9 credit hours
Total	36 credit hours

All students in the Thesis Option are required to write a letter outlining their applied experience relevant to the theory, research and practice of Disability Management, and rationale for taking the 9 credit Thesis Option. If the scope of their experience is considered insufficient by the program they will be required to take the Comprehensive Examination Option (see below). In addition, all students in the Thesis Option are required to travel to the Prince George campus to fulfill some of their thesis requirements.

Comprehensive Examination Option

The Comprehensive Examination Option consists of four components:

Core courses in Disability Management	12 credit hours
Research methods courses	6 credit hours
Electives	15 credit hours
Comprehensive Examination	3 credit hours
Total	36 credit hours

Requirements

Core Courses

DISM 609-3	Professional Ethics in Health Care Management
DISM 710-3	Foundations in Disability Management
DISM 711-3	Disability Management: Legislation, Policy & Procedures
DISM 712-3	Disability Management Interventions

Other courses may be substituted or added with the approval of the student's Supervisory Committee.

Research Courses

Two additional courses from the following:

EDUC 602-4	Quantitative Research Design and Data Analysis
EDUC 603-4	Advanced Quantitative Data Analysis
HHSC 603-3	Community Research Methods
HHSC 703-3	Qualitative Research Approaches in Health and Human Sciences
PSYC 600-4	Univariate Statistics
PSYC 605-4	Multivariate Statistics
SOCW 609-3	Advanced Quantitative Research

Other courses may be substituted or added with the approval of the student's Supervisory Committee.

Elective Courses

Candidates must complete a minimum of 9 credit hours from the following list:

DISM 720-3	Special Topics
DISM 798-(3-6)	Directed Studies
ECON 610-3	Health Economics
ECON 611-3	Cost Benefit Analysis
EDUC 609-3	Aboriginal/Indigenous Learners: History, Culture, and Ways of Knowing
EDUC 613-3	Interpersonal Counselling Skills
HHSC 602-3	Organization and Financing of Canadian Health Care
NURS 604-3	The Healing and Well-being of Indigenous Peoples
POLS 603-3	Social and Health Policy in the Context of Health and Health Care
PSYC 609-3	Health Psychology
SOCW 605-3	Community Work/Politics of Change
SOCW 698-3	Special Topics

Other courses may be substituted or added with the approval of the student's Supervisory Committee.

Comprehensive Examination, or Thesis

DISM 796-3	Disability Management Comprehensive Examination
DISM 799-9	Disability Management Thesis

Comprehensive Examination

The comprehensive examination option of study requires the successful completion of a comprehensive examination that evaluates a candidate's knowledge of theory, research and practice in their field of study.

Thesis

An oral examination is required as per University regulations. All students taking the thesis option will be required to be in Prince George for the oral examination.

Education (MEd Program)

Margo Greenwood, Professor

Andrew Kitchenham, Professor

Tina Fraser, Associate Professor and BEd Coordinator and Aboriginal/
Indigenous Education Coordinator

Alexander Lautensach, Associate Professor

VernaLynn McDonald, Associate Professor

Linda O'Neill, Associate Professor, and MEd Counselling Coordinator
(Regional)

Lantana Usman, Associate Professor

Edward Harrison, Assistant Professor, and BEd Coordinator (Northwest
Region)

Dennis Procter, Assistant Professor

John Sherry, Assistant Professor

Catherine Whalen, Assistant Professor

Website: www.unbc.ca/education/master-of-education

The Master of Education Program is responsible for the preparation of professional educators who may pursue advanced study at the doctoral level and/or advanced professional employment.

As distinct from undergraduate degree programs that advance students' knowledge of their disciplines, graduate degree programs at the Master's level have the more difficult task of not only advancing students' knowledge to the point of mastery, but also preparing students to demonstrate that they are capable of advancing the knowledge of their disciplines. The MEd degree awarded under the authority of the School of Education includes the courses and supervised study necessary to meet this obligation.

Admission

Application deadlines can be found in the Graduate Programs Admissions and Regulations section of the Graduate Calendar at www.unbc.ca/calendar/graduate/admissions.

In addition to full-time students, the Education degree programs attempt to accommodate part-time students who may hold full-time jobs. For this reason, most of the Education courses are offered in the late afternoon and evening, as well as during Summer Session, so they can be accessed by persons during their annual vacation. It is recommended that students plan to make full use of the Summer Session offerings to complete their degree within the prescribed time limit. It is also recommended that students complete EDUC 601-3 (Educational Research Design and Methodology) and either EDUC 602-4 (Quantitative Research Design and Data Analysis) or EDUC 610-4 (Qualitative Analysis in Education) during the first half of their MEd program.

Requirements

Provided that such courses have not been associated with the receipt of either a degree or diploma from UNBC or another educational institution, students may apply to the Vice Provost Student Recruitment or designate for up to six credit hours for previously completed graduate-level coursework that is equivalent to that completed in the MEd program. Where equivalent courses have been associated previously with the receipt of either a degree or diploma, students will be permitted to elect alternative courses from the MEd program to satisfy the requirements for the degree.

Students in an MEd Program may take up to 6 credit hours of elective coursework from UNBC programs other than that in which they are completing their specialization or from other institutions under the Western Deans' Agreement (students require permission of their Academic Supervisor and the Education Graduate Program Chair). The supervisory committee may advise thesis students to take the research seminar course, EDUC 795-3.

MEd Program Requirements

Thesis Requirement

The thesis route emphasizes academic study, research, and the successful completion of a thesis. This program route is designed to develop each student's ability to evaluate theory and practice, and conduct research that contributes to the discipline. The thesis route requires the successful completion of a minimum of 31 credit hours of graduate coursework in the Multidisciplinary Leadership specialization, a minimum of 40 credit hours in the Counselling specialization, or a minimum of 31 credit hours in the Special Education specialization. This requirement must include a minimum of 25 credit hours of graduate coursework in the Multidisciplinary Leadership specialization, a minimum of 35 credit hours in the Counselling specialization, or a minimum of 22 credit hours in the Special Education specialization and 9 credit hours of supervised research culminating in the completion of a thesis and the successful defense of it in an oral examination.

Project Requirement

The project route emphasizes the study of theory and practice, and the successful completion of an innovative research and/or development project that addresses a particular aspect of practice. This program route is designed to develop a student's ability to evaluate and improve professional practice in the discipline. The project route requires the successful completion of a minimum of 31 credit hours in the Multidisciplinary Leadership specialization, a minimum of 40 credit hours in the Counselling specialization, or a minimum of 31 credit hours in the Special Education specialization. This requirement must include a minimum of 25 credit hours of graduate coursework in the Multidisciplinary Leadership specialization, a minimum of 35 credit hours in the Counselling specialization, or a minimum of 25 credit hours in the Special Education specialization, and 6 credit hours of supervised work, culminating in the successful completion of a project.

Comprehensive Examination Requirement

The comprehensive examination route requires the successful completion of a comprehensive examination that evaluates a candidate's knowledge of theory, research, and practice in their field of study. This program route is designed to enhance and reinforce a student's knowledge of both theory and practice, as well as their interrelationship. The comprehensive examination route requires the successful completion of a minimum of 31 credit hours graduate course credit in the Multidisciplinary Leadership specialization, a minimum of 40 credit hours in the Counselling specialization, or a minimum of 31 credit hours in the Special Education specialization. This requirement must include a minimum of 28 credit hours of graduate coursework in the Multidisciplinary Leadership specialization, a minimum of 37 credit hours in the Counselling specialization, or a minimum of 28 credit hours in the Special Education specialization, and three (3) credit hours awarded upon the successful completion of a written comprehensive examination.

Application can be made to the School of Education to enter a thesis or project route after having completed at least 12 credit hours of coursework.

The research seminar course, EDUC 795-3, is strongly recommended, and may even be required, if research is to be undertaken.

Counselling

The Counselling specialization is designed to prepare counsellors to provide professional services and leadership in counselling and psycho-educational programs offered in schools, post-secondary institutions, social service agencies, and community health organizations. Students have the opportunity to choose the type(s) of counselling they wish to focus upon, and to complete periods of supervised clinical practice in practicum settings that are relevant to their interests, based on availability. The specialization includes an integrated core of required courses, elective courses, and a thesis, project or comprehensive examination. Counselling students are required to complete eight required courses, three elective courses, and a comprehensive examination. Application can be made to the School of Education to enter a thesis or project route after completion of at least 12 credit hours of coursework. If approved, the thesis route would consist of eight required courses, one elective, and the thesis, while a project route would consist of eight required courses, two electives, and a project.

Admission to the MEd Counselling specialization at the Prince George campus occurs each September; deadline for applications is December 15 of the prior year. Admission to the program at regional campuses does not normally occur each year and will vary in response to demand and resources.

In addition to the admission application requirements outlined in section 1.0 of the Graduate Admissions and Regulations, priority will be given to those applicants applying for the MEd Counselling specialization who have (a) graduated with a Baccalaureate degree a minimum of two years prior to the admission date to which they are applying, and (b) obtained some paid or unpaid work experience in a helping capacity at a counselling-related or teaching-related setting since receiving their Baccalaureate degree.

Applicants are also required to submit a Curriculum Vitae or Résumé that indicates the number of hours in each employment or volunteer position. A list of any scholarships or publications should also be included.

Criminal Record Review

In addition to meeting the admission application requirements outlined in Section 1.0 of the Graduate Admissions and Regulations, all applicants to the Education (MEd) Counselling program are required to submit a Criminal Record Check search prior to the first day of classes in their entry semester.

Domestic applicants must supply a Criminal Record Check search result after receiving an offer of admission and before the first day of classes; the search result is not required with the application. International applicants must submit a Criminal Record Check search result provided by their local police authority upon application, and will also be required to submit a British Columbia Criminal Record Check if offered admission. The Office of the Registrar will provide instructions to domestic and international applicants who have accepted offers of admission on how to complete a British Columbia Criminal Record Check.

Required Courses

EDUC 601-3	Educational Research Design and Methodology
EDUC 613-3	Interpersonal Counselling Skills
EDUC 711-3	Counselling Theory
EDUC 712-3	Counselling Practice
EDUC 714-3	Group Counselling Processes
EDUC 717-3	Ethics in Counselling
EDUC 719-6	Counselling Practicum

One of the following research courses is required; the other may be taken as elective credit:

EDUC 602-4	Quantitative Research Design and Data Analysis
EDUC 610-4	Qualitative Analysis in Education

Elective Courses

EDUC 603-4	Advanced Educational Research Data Analysis
EDUC 609 -3	Aboriginal/Indigenous Learners: History, Culture, and Ways of Knowing
EDUC 618-3	Family Counselling
EDUC 619-3	Counselling for Aboriginal/Indigenous Peoples
EDUC 633-3	Human Development: Implications for Education
EDUC 634-3	Achievement Motivation
EDUC 635-3	Educating Exceptional Students
EDUC 636-3	Language and Learning Disabilities
EDUC 690-3	Health and Human Sciences: Interdisciplinary Seminar
EDUC 692-3	Special Topics
EDUC 693-3	Directed Reading
EDUC 715-3	Career Counselling
EDUC 716-3	Clinical Counselling
EDUC 795-3	Research Seminar

Education

Thesis, Project or Comprehensive Examination

EDUC 797-3	Comprehensive Examination
EDUC 798-6	MEd Project
EDUC 799-9	MEd Thesis

Multidisciplinary Leadership (MDL)

The Multidisciplinary Leadership specialization is designed to prepare graduates to take on roles of responsibility and leadership in a number of educational and community environments. In particular, our graduates will develop skills in collaboration and communication, as well as specific leadership practices that enable the creation of positive and innovative organizational environments. At the same time, a rigorous academic focus provides the knowledge that is necessary to ground effective practice in the diverse and rich scholarship of leadership. Working from a philosophy of reflective engagement, students will be encouraged to engage in field studies that allow them to investigate the important social, economic, political, and cultural implications for contemporary forms of leadership.

The Multidisciplinary Leadership specialization requires completion of a minimum of 31 credit hours, and includes required core courses, focus area courses, elective courses, and an option of one of three routes: a comprehensive examination (3 credit hours), a project (6 credit hours), or a thesis (9 credit hours). Students will choose from one of the focus areas within the Multidisciplinary Leadership specialization. Multidisciplinary Leadership students are required to complete five core courses, required focus area courses, and a sufficient number of elective courses to meet the minimum 31 credit hour graduation requirement, including a comprehensive examination. The number of electives will vary according to the route chosen.

The Multidisciplinary Leadership specialization is divided into three focus areas: Educational Leadership, Assessment and Evaluation, and Curriculum. The focus areas share a common core of leadership and methodological courses, but beyond that are designed to allow students to prepare for leadership roles in a variety of specialized educational contexts.

Educational Leadership

The Educational Leadership focus area is designed for those individuals who want to specialize in school-based leadership. The specific management responsibilities of the school principal and the legal, economic, political, and social environment in which educational institutions operate are the central focus. Nevertheless, the scope of school leadership is more than managerial in nature, and other courses focus on the importance of building professional learning communities, accommodating diversity, the context of northern education, and creating positive learning environments that are central to effective educational leadership.

Assessment and Evaluation

The Assessment and Evaluation focus area allows for the development of strengths in the areas of quantitative data management and

decision-making. Increasing levels of accountability have become a central goal of public school systems. Teachers and administrators increasingly focus on the importance of the links between assessment and effective teaching practice. This focus area emphasizes the role of assessment in school systems as well as the acquisition of the skills needed to engage in all aspects of educational research.

Curriculum

The Curriculum focus area provides students with the maximum flexibility to self-direct their Master of Education degree content to meet their own needs and interests. As such, it does not have any core courses other than those common to all focus areas. Students will be able to select course topics which reflect personal and professional interests. This third focus area will also allow students in the current "Curriculum and Instruction specialization-Language in Education" focus area to convert to the Multidisciplinary Leadership specialization should they so choose.

The course requirements and courses for the Multidisciplinary Leadership specialization appear below.

Required Core Courses

EDUC 601-3	Educational Research Design and Methodology
EDUC 606-3	Leading for Change
EDUC 609-3	Aboriginal/Indigenous Learners: History, Culture, and Ways of Knowing
EDUC 655-3	Collaboration, Communication and Community: Leaders as Community Builders
EDUC 656-3	Instructional Leadership

One of the following research courses is required; the other may be taken as elective credit:

EDUC 602-4	Quantitative Research Design and Data Analysis
EDUC 610-4	Qualitative Analysis in Education

Required Educational Leadership Focus Area Courses

Two of the following six courses must be completed to meet the focus area requirements, the remaining three courses may become electives.

EDUC 615-3	The School Principalship
EDUC 616-3	Policy and Politics in Public Education
EDUC 617-3	Leading for Learning: Teacher Leadership and Principal Preparation
EDUC 626-3	Inclusive Education: Learning for All

Required Assessment and Evaluation Focus Area Courses

EDUC 603-4	Advanced Quantitative Data Analysis
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Required Curriculum Focus Area Courses

Selected courses to be approved by the Supervisory committee.

Elective Courses

EDUC 603-4	Advanced Quantitative Data Analysis
EDUC 615-3	The School Principalship
EDUC 616-3	Policy and Politics in Public Education
EDUC 617-3	Leading for Learning: Teacher Leadership and Principal Preparation
EDUC 621-3	Individual Assessment of Aptitudes and Achievement
EDUC 626-3	Inclusive Education: Learning for All
EDUC 633-3	Human Development: Implications for Education
EDUC 634-3	Achievement Motivation
EDUC 635-3	Educating Exceptional Students
EDUC 636-3	Language and Learning Disabilities
EDUC 651-3	Mathematics Education
EDUC 653-3	Social Studies Education
EDUC 655-3	Collaboration, Communication and Community: Leaders as Community Builders
EDUC 656-3	Instructional Leadership
EDUC 690-3	Health and Human Sciences: Interdisciplinary Seminar
EDUC 692-3	Special Topics
EDUC 693-3	Directed Reading
EDUC 795-3	Research Seminar

Thesis, Project or Comprehensive Examination

EDUC 797-3	Comprehensive Examination
EDUC 798-6	MEd Project (Research or non-research option)
EDUC 799-9	MEd Thesis

Special Education

The Special Education specialization prepares students to provide professional services and leadership in Special Education and educational programs offered in schools and other educational institutions. The program includes an integrated core of required courses, elective courses, and thesis, project, portfolio, or comprehensive examination routes.

The Special Education specialization is delivered online or by other distance technologies. It requires a minimum of 31 graduate credit hours for completion, with an option to take up to 10 additional elective credit hours. The Special Education specialization requires students to complete five required courses, and a sufficient number of elective courses to meet the minimum 31 credit hour graduation requirement including the portfolio (3 credit hours), comprehensive examination (3 credit hours), project (6 credit hours), or thesis (9 credit hours) routes.

Curriculum

Required Core Courses

EDUC 601-3	Educational Research Design and Methodology
EDUC 633-3	Human Development: Implications for Education
EDUC 635-3	Educating Exceptional Students

EDUC 636-3	Language and Learning Disabilities
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One of the following research courses is required; the other may be taken as elective credit:

EDUC 602-4	Quantitative Research Design and Data Analysis
EDUC 610-4	Qualitative Analysis in Education

Choose one of the following four routes to completion: Portfolio, Comprehensive Examination, Project, or Thesis.

1. Portfolio

EDUC 796-3 Portfolio
and
a minimum of 12 credit hours of additional coursework selected from the list of electives below.

2. Comprehensive Examination

EDUC 797-3 Comprehensive Examination
and
a minimum of 12 credit hours of additional coursework selected from the list of electives below

3. Project

EDUC 798-6 MEd Project
and
a minimum of 9 credit hours of additional coursework selected from the list of electives below

4. Thesis

EDUC 799-9 MEd Thesis
and
a minimum of 6 credit hours of additional coursework selected from the list of electives below

Elective courses*

One of EDUC 602-4 and EDUC 610-4 may be taken as an elective provided the other is taken as a required core course.

EDUC 609-3	Aboriginal/Indigenous Learners: History, Culture, and Ways of Knowing
EDUC 621-3	Classroom Assessment Practices
EDUC 622-4	Psychoeducational Assessment
EDUC 632-3	Language Development: Implications for Education
EDUC 634-3	Achievement Motivation
EDUC 637-3	Interventions for Literacy Disorders
EDUC 638-3	Mathematic Disorders and Remediation
EDUC 639-3	School-Based Teams, Consultants, and Families
EDUC 640-3**	Focus on a Selected Disability
EDUC 642-3	Personal and Career Planning for Students with Special Needs

Education

EDUC 795-3 Research Seminar (Strongly Recommended, and may be required by supervisor if EDUC 799 Thesis or EDUC 798 Project has been chosen for the completion route)

* With the approval of the Graduate Supervisor and Graduate Program Chair, a student may complete up to 6 credit hours of graduate coursework not from the above list. These elective credit hours may be other graduate-level EDUC courses, and/or from other UNBC graduate programs, and/or from other accredited Canadian universities via approved transfer agreements (e.g., Western Deans' Agreement).

** This course focuses in depth on educational aspects of a specific disability or range of disabilities, such as FASD, Autism Spectrum Disorder, hearing disability and deafness, or visual impairment. The courses are named specifically: e.g., Focus on Autism, Focus on FASD. A student may take this course up to two times (each time with a different focus).

Leading for Learning Graduate Certificate

The Leading for Learning Graduate Certificate is intended for those professionals who wish to receive a British Columbia Education Leadership Council approved certificate. The certificate prepares graduates to become recognized educational leaders whether in a teacher-leader or administrative-leader position. The certificate is designed to ladder into the MEd in Multidisciplinary Leadership (MDL).

Admission

Admission requirements are the same as for the MEd degree.

The Leading for Learning Graduate Certificate requires 15 credit hours of coursework – that is, five courses, two of which are required courses in the MEd Multidisciplinary Leadership (MDL) specialization, and the other three of which are part of a series of acceptable courses for the Educational Leadership Focus Area of the MDL. The certificate courses are normally offered over a four-semester cycle. While it is expected that most certificate completers will continue with completion of a Masters of Education Multidisciplinary Leadership degree, students may choose to complete only the certificate. The schedule of courses offered on most UNBC campuses allows completion of the certificate first and in the sequence of courses as follows but this is not a requirement. Variation from this schedule of courses requires the permission of the MEd MDL Coordinator and School Chair. It is also possible to complete the MEd MDL without meeting all the requirements of the certificate.

Required Courses

EDUC 606-3 Leading for Change
EDUC 609-3 Aboriginal/Indigenous Learners: History, Culture, and Ways of Knowing

Plus three of the following:

EDUC 615-3	The School Principalship
EDUC 616-3	Policy and Politics in Public Education
EDUC 617-3	Leading for Learning: Teacher Leadership and Principal Preparation
EDUC 626-3	Inclusive Education: Learning for All
EDUC 656-3	Instructional Leadership

A Leadership Development Portfolio and an Inquiry Project must also be completed concurrently in order to meet requirements of the certificate.

Students already enrolled in the MEd MDL specialization may complete these courses and receive the certificate, subject to a sequence of available courses being offered by the University.

Students applying to UNBC's Master of Education Multidisciplinary Leadership specialization with a fully or partially completed graduate diploma or certificate, developed under the BC Educational Leadership Council process in conjunction with the Association of BC Deans of Education, may be eligible to receive up to 15 credit hours of transfer credit, at the discretion of the Chair of the School of Education. For each course so credited the student will be rebated the equivalent of one 3 credit-hour, non-degree graduate course fee against the student's total Masters of Education tuition.

Special Education Graduate Certificate

The Special Education Graduate Certificate is designed to prepare students to provide professional services and leadership in Special Education and educational programs offered in schools and other educational institutions. This certificate is delivered via online and face to face (blended learning model). It requires a minimum of 15 graduate credit hours for completion.

Admission

Admission requirements are the same as for the Master of Education degree.

Required Courses

EDUC 622-4	Psychoeducational Assessment
EDUC 635-3	Educating Exceptional Students
EDUC 637-3	Interventions for Literary Disorders
EDUC 638-3	Mathematic Disorders and Remediation
EDUC 639-3	School-Based Teams, Consultants and Families

English (MA Program)

Stan Beeler, Professor Emeritus

Karin Beeler, Professor and Chair
 Robert Budde, Professor
 Kristen Guest, Professor
 Dee Horne, Professor
 Kevin Hutchings, Professor
 Maryna Romanets, Professor
 Lisa Dickson, Associate Professor
 Blanca Schorcht, Associate Professor
 Monica Matfield, Assistant Professor and Adjunct Professor

Website: www.unbc.ca/english

Literary representations both reflect and help to create our views of the world, including our social theories and practices; thus, the study of literature can provide students with insights concerning past and present concepts of personal and social identity, cultural traditions and beliefs, and interpersonal and cross-cultural relationships. Since the time of Aristotle, moreover, literary commentators have analyzed “setting” as an important formal aspect of literary writing; literary study can therefore help us to investigate, and perhaps to reconsider, our relationships to both our human and non-human environments. In today’s world, where efforts to resolve intercultural conflicts and environmental problems have taken on a profound sense of urgency, literary study provides a crucial forum for intellectual and ethical debate leading to the revision of cultural practice.

The study of English literature provides students with critical skills of analysis and synthesis, helping them to identify and understand complex problems, and encouraging them to conceptualize viable resolutions and alternative understandings. Perhaps more than any other academic discipline, English literature also emphasizes the importance of literacy, including the development of effective writing and oral presentation skills, thereby providing students with the communications skills so highly valued in the professional world.

The Master of Arts degree in English is available on a full-time or part-time basis. Students may choose a course-based MA option (plus ENGL 770) or the coursework and graduate thesis option. Upon admission into the English MA program, each student is assigned a supervisor, who works closely with the student to monitor their program of study and progress. In consultation with supervisors and supervisory committee members, each student chooses courses designed to complement and inform the proposed research area, completing most of the coursework during the first year of the program. The second year is devoted primarily to the production of the thesis or, in the case of the course-based MA, to the completion of coursework and the major research paper.

Admission

Applicants to the UNBC English MA program must follow the admission requirements outlined in Section 1.0 of the Graduate Academic Calendar. Entrance to the MA is competitive; only applicants with a record of excellence are admitted. Therefore, applicants must provide the following information with their applications:

- a senior-level undergraduate research paper as a writing sample;
- undergraduate transcripts;
- strong letters of academic recommendation;
- strong letter of intent;
- evidence of interest in the MA’s areas of research specialization (Literature, Culture, Place);
- the name of the faculty member who is willing to supervise their thesis work or major research paper (if possible).

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The English MA program accepts students for the September Semester.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

The course of study is composed of a minimum total of 30 credit hours.

Thesis-Based MA

Students are required to complete five graduate courses (15 credit hours) plus ENGL 799-15: MA Thesis. In the required courses, students have the opportunity to engage in close intellectual dialogue and debate with fellow graduate students and professors, thereby cultivating the productive collegial relationships crucial to a dynamic graduate student culture. With the exception of ENGL 699-3 (Advanced Independent Study in Literature, which faculty members supervise on an individual basis), all courses are offered as seminar courses. Students are required to produce both a detailed thesis proposal and bibliography at the beginning of their second year of study, and to defend, in a formal oral examination, a 15 credit-hour thesis of approximately 100 pages in length.

Required Courses for MA with Thesis

ENGL 690-3	Bibliography
ENGL 700-3	Studies in Literature, Culture and Place
ENGL 799-15	MA Thesis

Plus 9 credit hours of elective courses at the 600 level.

The supervisory committee ensures the appropriate selection of elective courses. All English graduate courses approved by Senate should be considered as potential electives.

Creative Writing Thesis Option

The English Department offers a limited number of MA candidates the opportunity to complete a 15 credit-hour creative thesis in lieu of an academic thesis. Successful applicants who wish to pursue this option are admitted on the same basis and fulfill the same course and thesis requirements as other English Thesis-based MA candidates. Permission to undertake a creative thesis is at the discretion of the Department, and requires that students submit proposals along with a substantial portfolio of previous creative work (e.g., 8-10 pages of original poetry or 20-25 pages of prose such as a short story or novel excerpt, or a dramatic script or screenplay, or a combination of these genres). The proposal should outline the form, scope, and subject matter of the Creative Writing thesis. In addition, students must demonstrate some critical and theoretical awareness of the approach they plan to take for the creative thesis. The finished thesis includes an introduction of no fewer than 15 pages delineating this critical and theoretical awareness. Because of the high standards expected for the creative project and the Department's limited faculty resources in the area of creative writing, a limited number of students are permitted to undertake this alternative. Students should therefore note that admission to the MA program in English does not guarantee permission to write a creative thesis.

Course-Based MA

Course-based MA students take six graduate courses (18 credit hours), plus ENGL 770-12: Major Research Paper/Creative Project (12 credit hours). In the required courses, students have the opportunity to engage in close intellectual dialogue and debate with fellow graduate students and professors, thereby cultivating the productive collegial relationships crucial to a dynamic graduate student culture. With the exception of ENGL 699-3 (Advanced Independent Study in Literature, which faculty members supervise on an individual basis), all courses are offered as seminar courses. The major paper or major creative project in ENGL 770 is graded by the student's supervisor.

Required Courses for Course-Based MA

ENGL 690-3	Bibliography
ENGL 700-3	Studies in Literature, Culture and Place
ENGL 770-12	Major Research Paper/Creative Project

Plus 9 credit hours of elective courses at the 600 level.

The supervisory committee ensures the appropriate selection of elective courses. All English graduate courses approved by Senate should be considered as potential electives.

First Nations Studies (MA Program)

Margaret Anderson, Professor Emerita
Antonia Mills, Professor Emerita

Gary Wilson, Professor and Chair
Fyre Jean Graveline, Professor
Margo Greenwood, Professor
Ross Hoffman, Professor
Blanca Schorch, Associate Professor
Agnieszka (Agnes) Pawlowska-Mainville, Assistant Professor
Rheanna Robinson, Assistant Professor
Judy (Edōsdi) Thompson, Assistant Professor
Tina Fraser, Adjunct Professor
Earl Henderson, Adjunct Professor
Travis Holyk, Adjunct Professor
Deanna Nyce, Adjunct Professor
Tannis Reynolds, Lecturer

Website: www.unbc.ca/first-nations-studies

The UNBC MA program in First Nations Studies establishes 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 orient students to question underlying assumptions of everyday study. A special emphasis is placed on creating opportunities for students to learn from and about the First Nations of the north. This program includes courses taught in First Nations communities, internships, and community-based research projects. Each student's program culminates in completion of either a thesis or major project.

In addition to the high priority given to the First Nations of northern British Columbia, offerings include topics relevant to the Aboriginal Peoples of Canada and indigenous peoples of the world. The areas of study within the program are: First Nations Issues and Approaches, emphasizing the development of theory and method for the understanding of contemporary issues; Northern Nations, which facilitates with the development of skills, knowledge, and experience in the study of the languages and cultures of northern British Columbia; and Aboriginal Health and Healing. Relationships with faculty in other graduate programs at UNBC enrich the options for interdisciplinary work in areas such as Health Sciences, Education, Political Science, Gender Studies, English, History, Environmental Studies, and Geography.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The First Nations Studies MA Program admits students for the September Semester only. Admission occurs on a two year cycle. Refer to the "Application for Admission Deadline Dates."

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

Students normally complete the 30 credit hours of the MA in First Nations Studies within 36 months of entry into the program. The first 20 months of the program are devoted to coursework and the development of a research proposal for a thesis or a project. Students spend the last 16 months of the program completing their theses or projects.

In the first year of the program, all students must take the following courses:

FNST 600-3	Foundations of First Nations Studies: Theory and Practice
FNST 602-3	The Practice of Research
FNST 605-3	The State of the Discipline
FNST 650-3	Special Topics

In the second year of the program students must take FNST 795-3 Research Seminar which extends over the September and January semesters. Students must also register in either FNST 799-15 (Thesis) or FNST 797-15 (MA Project).

The classroom segment of the FNST MA program is delivered to a cohort of students, face-to-face, in a block format. The program offers two-day sessions spanning one weekend once a month, from September to April. All the students in the cohort take the same required courses, and focus on their individual coursework and their research on their own particular area of interest. In-person attendance is mandatory.

Students are expected to demonstrate a general knowledge of the Aboriginal Peoples of Canada. At a minimum, this knowledge must be comparable in scope and depth to the material covered in FNST 100-3 The Aboriginal Peoples of Canada.

Language Requirement

There are no language requirements. However, students should be aware that command of one or more languages other than English may be necessary in order to pursue particular types of research.

Gender Studies (MA Program)

Jacqueline Holler, Associate Professor and Coordinator
 Sherry Beaumont, Professor (Psychology)
 Karin Beeler, Professor (English)
 Annie Booth, Professor (Ecosystem Science and Management)
 Gail Fondahl, Professor (Geography)
 Fiona MacPhail, Professor (Economics)
 Antonia Mills, Professor Emerita (First Nations Studies)
 Heather Smith, Professor (International Studies)
 Lisa Dickson, Associate Professor (English)
 Kristin Guest, Associate Professor (English)
 Dawn Hemingway, Associate Professor (Social Work)
 Catherine Nolin, Associate Professor (Geography)
 Maryna Romanets, Associate Professor
 Angèle Smith, Associate Professor (Anthropology)
 Si Transken, Associate Professor (Social Work)
 Dana Wessell Lightfoot, Associate Professor (History)

Website: www.unbc.ca/gender-studies

The Gender Studies MA program at UNBC offers the opportunity to work with scholars in a variety of disciplines who share a focus on women and/or gender as a category of analysis.

The program has particular strengths in areas such as gender, literature, and cultural studies; gender, history, and anthropology; gender, colonialism, and postcolonialism; gender and globalization; feminism, justice, and ethics; gender and health; and gender and international studies. Gender Studies MA students have the opportunity to design a course of study that incorporates gender- or feminism-based methodologies and interdisciplinarity while developing expertise in an area of concentration. While providing a transnational frame of reference, we also pay attention to the national and regional; students will therefore emerge from the program with both a broad analytical framework and a well-developed focus.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Gender Studies MA Program accepts students for the September and January Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

MA with Thesis

The MA with thesis is 24 credit hours in total, normally taking up to two years.

Fifteen credit hours (five courses) plus GNDR 700-9 (Gender Studies Thesis) are required. Students may take a maximum of four courses per semester. The thesis will include a written text (maximum of 100 pages) and will be defended in an oral examination. Students interested in alternative forms of presentation must obtain special permission from the Chair of the program and Vice President Research and Graduate Programs or designate.

MA thesis work is expected to be original, and make a substantive contribution to knowledge and the means of expressing that knowledge.

Students are required to include in their credit hours GNDR 611-3 (Feminist Theories). Students working in the field of Social Science research are required to include in their credit hours GNDR 611-3 (Feminist Theories) and GNDR 609-3 (Advanced Feminist Methods).

MA without Thesis

The MA with coursework only is 24 credit hours, and can be completed in one year.

Twenty-one credit hours (seven courses) plus GNDR 701-3 (Gender Studies Major Research Paper) are required. Students may take a maximum of four courses per semester. The major research paper is expected to be 30 to 40 pages, and to extend from an original research project already initiated in coursework.

Students are required to include in their credit hours GNDR 611-3 (Feminist Theories). Students working in the field of Social Science research are required to include in their credit hours GNDR 611-3 (Feminist Theories) and GNDR 609-3 (Advanced Feminist Methods).

Students taking either the MA with Thesis or MA without Thesis may take courses in other graduate programs with the approval of the Chair or the Coordinator of the Gender Studies Program and the Vice President Research and Graduate Programs or designate. The interdisciplinary component in the Gender Studies program encourages students to articulate their studies with other interdisciplinary graduate programs such as International Studies, Environmental Studies, and First Nations Studies. Students may also choose to take graduate courses in the regular disciplinary fields such as History, Biology, and Political Science.

Health Sciences (MSc Program)

For potential supervisors, please visit our website:
www.unbc.ca/health-sciences

The MSc in Health Science offers a combined student-centred and community-oriented approach. The MSc strengthens students' capacity to progress their research interests and equips a new generation of researchers to understand and respond to contemporary health challenges, especially those faced by northern, rural, remote and Indigenous communities. The interdisciplinary program provides opportunities for those interested in health within a changing health system to explore and research and to benefit from the diverse health research strengths in the School of Health Sciences and across UNBC.

Students pursue health research approaches that fit with their interests, learning from a range of research expertise spanning but not limited to biomedical, epidemiological, community health and ecohealth approaches. Our students also benefit from active research partnerships across and beyond the university that create opportunities for applied and community-oriented research, with direct experience working with and learning from a range of community partners.

The research-based Master's degree equips students for a thriving career in health research (including applications for PhD programs), and is well suited for established health professionals seeking a research oriented program that will build on existing practice and skills.

Admission

Application deadlines can be found in the Graduate Programs Admissions and Regulations section of the Graduate Calendar at www.unbc.ca/calendar/graduate/admissions.

The Health Sciences MSc Program accepts students for the September Semester.

In addition to meeting the admission application requirements outlined in Section 1.0 of the Graduate Admissions and Regulations, all applicants to the Health Sciences MSc Program are required to submit a Criminal Record Check search prior to the first day of classes in their entry semester.

Domestic applicants must supply a Criminal Record Check search result after receiving an offer of admission and before the first day of classes; the search result is not required with the application. International applicants must submit a Criminal Record Check search result completed by their local police authority upon application, and will also be required to submit a British Columbia Criminal Record Check if offered admission. The Office of the Registrar will provide instructions to domestic and international applicants who have

accepted offers of admission on how to complete a British Columbia Criminal Record Check.

Prerequisites

Applicants must have completed an undergraduate course in statistics or biostatistics. In addition to courses taught in departments of Mathematics or Statistics, courses that are included in social sciences programs such as psychology or sociology, and in the curricula of undergraduate health professions, meet this requirement.

An undergraduate course in research methodology. Appropriate courses include those found in social science undergraduate programs, and in the curricula of undergraduate health professions.

Requirements

Six courses (18 credit hours) at the graduate level, a Health Research Seminar Series (1 credit), and a thesis (12 credit hours) are required.

The following courses must be completed by ALL students as part of their program.

EDUC 602-4	Quantitative Research Design and Data Analysis
or PSYC 600-4	Univariate Statistics
	or another graduate-level statistics course approved by the Program
HHSC 601-3	Principles of Epidemiology
HHSC 700-3	Advanced Techniques in Epidemiology
or HHSC 703-3	Qualitative Research Approaches in Health and Human Sciences
	or a course as chosen in consultation with the Supervisory Sommittee, and approved by the Chair of Health Sciences
HHSC 795-3	Graduate Seminar in Health Sciences
HHSC 796-1	Health Research Seminar Series

Additional Course Requirements

Two courses (6 credit hours), chosen in consultation with the supervisor.

Examples of courses taken by Health Sciences MSc students are:

BCMB 702-3	Chemical Biology Theory and Techniques
BIOL 625-3	Applied Genetics and Biotechnology
DISM 609-3	Professional Ethics in Health Care Management
ECON 610-3	Health Economics
HHSC 602-3	Organization and Financing of Canadian Health Care
HHSC 603-3	Community Research Methods
HHSC 606-3	Health Promotion
NURS 604-3	The Healing and Well-being of Indigenous Peoples
NURS 701-6	Advanced Clinical Practice in Nursing
POLS 603-3	Social and Health Policy in the Context of Health and Health Care
PSYC 605-4	Multivariate Statistics
PSYC 609-3	Health Psychology
SOCW 610-3	Wellness: Alternate Approaches

Other courses may be substituted or added with the approval of the student's Supervisory Committee.

Thesis

The thesis (HHSC 790-12) shall be assigned 12 credit hours.

Transfer Credit

A maximum of two courses (6 credit hours) completed with at least a B standing at a recognized University may be transferred with the approval of the advisor and the Chair of the School of Health Sciences.

Health Sciences (PhD Program)

For potential supervisors, please visit our website:
www.unbc.ca/health-sciences

The PhD in Health Sciences offers students the opportunity to develop an advanced level of understanding and training in any one scientific discipline, or a combination of scientific disciplines, related to human health, the processes (e.g., sociological, biological, chemical, physical) that influence human health. The PhD in Health Sciences promotes an integration of social, ethical, political, and cultural dimensions, and an understanding of basic biological, ecological and physical determinants of health. Students are expected to acquire a familiarity with the scope of disciplines that contribute to knowledge and practice in health sciences while developing expertise in a specific disciplinary area. Graduates from this program have an area of concentration, and a familiarity with other disciplines and are able to work constructively and show leadership within the increasingly complex multidisciplinary frameworks that are evolving across all parts of the health continuum.

Students must complete 6 credit hours of a mandatory interdisciplinary seminar series: HHSC 800-6 Graduate Seminar. The seminar covers core topics of grant writing and project management, ethics and human subjects research, and methodologies employed in health sciences research, and features presentations on areas of concentration by faculty and senior students in the program.

Students must also complete a 12 credit-hour dissertation (HHSC 890-12 PhD Dissertation) to the satisfaction of their committee. In addition, they must take a minimum of 6 credit hours in elective courses relevant to their area of concentration as determined by their supervisor. At the discretion of their supervisory committee, students may be required to take additional courses within their area of concentration.

Students must pass three separate assessments of their academic progress towards a PhD: a qualifying exam, a defense of the dissertation proposal, and a defense of the dissertation. The qualifying exam is tailored to ensure a cross-disciplinary aptitude and tests the student's grasp of the core interdisciplinary materials presented in the seminar series as well as core concepts of their area of concentration derived from elective coursework. The dissertation proposal defense ensures students have a grasp of their area of concentration and therefore examines the level of knowledge within that area of concentration. Upon successfully passing both the qualifying examination and the dissertation proposal defense, students are granted candidate status and embark upon the dissertation work under the supervision of their faculty advisor. Following completion of the research, candidates must defend their dissertation before an examination committee.

Summary

HHSC 800-6 Graduate Seminar I	6 credit hours
Elective Courses	6 credit hours
HHSC 890-12 PhD Dissertation	12 credit hours

Total Required 24 credit hours

Admission

Students are normally expected to hold a Master's degree from an accredited post-secondary institution. Normally, applicants must hold a cumulative GPA of 3.67 (A-) from the Baccalaureate and Master's degree, to be calculated over the last 30 gradable credits.

In addition to a completed UNBC Graduate Application Form, applicants must provide official transcripts from all post-secondary institutions attended, a statement of intent indicating the student's research interests, possible future career aspirations, and perceived fit within the Faculty mandate and research directions; three letters of reference; and a sample of written academic work. GRE scores are optional. Only students with high GPAs and innovative research interests are likely to be successful in their applications.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Health Sciences PhD Program accepts students for the September semester.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Recommended Progression

First Year: Mandatory Interdisciplinary Seminar, Elective Graduate Courses, Qualifying Exam

During the first two semesters, students take a mandatory interdisciplinary seminar series: HHSC 800-6 Graduate Seminar. Based upon determinations made either prior to entry into the program, or in the first semester, elective courses determined by the supervisor will be also taken.

Second Year: Area of Concentration, Defense of Dissertation Proposal

If students are required to take additional courses to address deficiencies within their area of concentration, they may select courses from relevant course offerings within the UNBC programs, or from other accredited graduate programs in other post-secondary institutions. In addition, students normally conduct some exploratory research in their area of concentration. Students in their second and third years are expected to present on their area of concentration to the interdisciplinary seminar series as an exercise in communicating their research field to a more general audience.

At the end of their coursework, PhD students normally take a

qualifying exam consisting of written and oral components. The general part of the exam should demonstrate the student's ability to synthesize and extrapolate from the core interdisciplinary materials presented in the seminar program. The specialty part of the exam assesses the student's background knowledge and familiarity with the theory and methodology associated with their dissertation topic. Students normally take the qualifying exam upon completion of the 12 credit hours of required core courses.

Once coursework is complete, students work towards finalizing a dissertation proposal, which should demonstrate academic rigour and be of publishable quality. Students are expected to present the dissertation proposal before their committee, and to demonstrate their knowledge within their area of concentration. Normally, this defense is scheduled either at the end of the third semester or at the beginning of the fourth semester of study.

Third to Fifth Year: Dissertation

Upon successful completion of coursework, and the successful completion of the qualifying exam and the defense of the dissertation proposal, the student is officially designated as a PhD candidate, and proceeds to full-time work on the dissertation under the direct supervision of the advisor and any other designated committee members. Once the dissertation proposal has been approved by the committee, any major changes made to the dissertation proposal require further approval of the committee.

Under normal circumstances, students are expected to complete their research and the writing of the dissertation within three years of becoming a doctoral candidate.

History (MA Program)

Dana Wessell Lightfoot, Associate Professor and Chair
Theodore Binnema, Professor
Jonathan Swainger, Professor
Jacqueline Holler, Associate Professor
Benjamin Bryce, Assistant Professor

Website: www.unbc.ca/history

The Department of History offers the opportunity for graduate study leading to the MA degree. The program's regional specifications are Canada, Britain and its empire, and the Iberian world. Gender, legal, environmental, and indigenous histories are particular areas of strength. Students will be accepted subject to the availability of an appropriate supervisor.

The MA program comprises two streams. Thesis students complete 15 credit hours of graduate coursework and a 100-page thesis based on original research. Project students complete 18 credit hours of coursework and a substantial project.

Upon admission to the MA program, each student is assigned a supervisor who is responsible for the student's program and progress. There are two components to the MA program: coursework and thesis/project. Students are normally expected to complete their coursework in two semesters, and the total program in four semesters.

Admission

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, applicants must also supply a sample of written work (thesis or paper) as part of their application.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The History MA Program accepts students for the September and January Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

Candidates for the MA degree must satisfy the following requirements.

Thesis or Project

HIST 750-15 MA Thesis or Project

Thesis or Project students take five graduate courses (15 credit hours) and HIST 750-15. Students are required to take HIST 700, HIST 745, and three other courses selected in consultation with the student's supervisor. With approval of their supervisors, students may take up to two courses in a related program. Students decide on their thesis or project topic, sources, and approach as part of HIST 745-3, which is normally taken in their second semester. The thesis must be based on original research, and demonstrate an understanding of historical writing and practice, as well as independent, critical thought. Alternatively, students may complete a project of comparable weight to a thesis. Projects may include knowledge transmission, museum exhibits, documentary films, creative writing, digital history initiatives, and/or projects based on substantial historical research.

Course-Based MA

HIST 760-12 History Master's Major Research Paper

Course-based MA students take six graduate courses (18 credit hours) and HIST 760-12. Students are required to take HIST 700, HIST 745, and four other courses selected in consultation with the student's supervisor. With approval of their supervisors, students may take up to two courses in a related program.

Required Courses

HIST 700-3 Seminar in Historical Methodology and Research
HIST 745-3 Historical Methods and Approaches

Elective Courses

HIST 701-3 Themes in the History of Gender
HIST 702-3 Themes in Indigenous History
HIST 704-3 Themes in Environmental History
HIST 705-3 Themes in the History of International Relations
HIST 707-3 Themes in Cultural History
HIST 708-3 Themes in Social History
HIST 709-3 Themes in Legal History
HIST 799-3 Independent Study

Integrated Wood Design (MEng Program)

Maik Gehloff, Acting Chair

Thomas Tannert, Associate Professor, Canada Research Chair Hybrid Wood Structures Engineering, BC Leadership Chair in Tall Wood and Hybrid Structures Engineering

Guido Wimmers, Associate Professor

Asif Iqbal, Assistant Professor

Jianhui Zhou, Assistant Professor

Mike Billups, Wood Engineering Technician

Ryan Stern, Electric Engineering Technician

Website: www.unbc.ca/graduate-engineering

Wood is the world's most common and sustainable building material. Known for its aesthetic beauty, durability, and ease of machinability, wood is becoming the leading building material in a new paradigm of sustainable and healthy building practices. Significant renewable wood resources in British Columbia and an international wood culture provide a strong impetus for UNBC, the province, and industrial partners to develop a leading education program centered on sustainable, healthy building practices using wood.

In order to meet the needs of the profession, the Master of Engineering, Integrated Wood Design develops students' understanding of wood as a versatile and sustainable building component that can be used in applications far beyond what could be achieved using concrete and steel. Students investigate wood at the micro and macro levels and explore the science and art of designing and building wood structures.

The one-year interdisciplinary Master's program is built on four main pillars:

1. **Wood Mechanics and Timber Structures:** Students gain a deep understanding of wood. Starting with an understanding of the supply chain, students come to appreciate the sustainable nature of wood, its unique structure, its living nature, and its strengths and weaknesses, in relationship to other commonly used building materials.
2. **Hands-on Experience:** The only way to experience wood is to work with it, as it is one of the most complex building materials. Students build small-scale structures to explore the versatility and complexity of wood structures. Community or industry internships may be included.
3. **Team Work:** At the core of successful design teams is the ability to communicate effectively and integrate different points of view. Students undertaking this program are immersed in the science and art of design team work. Multi-disciplinary teams work together throughout the program to build effective

communication skills by working with individuals with diverse backgrounds and a wide range of experts such as technical experts, professional engineers, architects, and community members.

4. Sustainability: Students study and come to appreciate a range of state-of-the-art sustainable designs and how those designs fit within the broader social and political context of sustainability.

Admission Requirements

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, applicants are required to hold a four-year (120 credit hours) baccalaureate degree in Civil Engineering from a recognized institution.

For entry into the Master of Engineering, Integrated Wood Design degree program, students who do not meet the exemptions indicated in Section 1.1 must fulfill the English Language Requirements outlined below.

Score requirements must meet one of the following criteria:

IELTS (International English Language Testing System) score of at least 7.0 overall, with not less than 6.5 in any of the four modules;

TOEFL (Test of English as a Foreign Language) score of 100 in the internet-based test, with not less than 25 in any of the Reading, Listening, Writing or Speaking components; or equivalent other TOEFL score;

or the equivalent Master of Engineering, Integrated Wood Design level on other test score accepted by the University

Exceptional Admission

Applicants who have a four-year (120 credit-hour) baccalaureate degree (or equivalent) may be granted admission to the program if sufficient related engineering content can be demonstrated.

The Pre-Entry program as outlined in Section 1.7.2 is not applicable for applicants to gain entry to the Master of Engineering, Integrated Wood Design Program.

Requirements

IENG 611-3	Introduction to Wood as a Building Material
IENG 612-3	Project Design 1
IENG 613-3	Wood Design 1
IENG 614-3	Building Science 1
IENG 615-3	Wood Science
IENG 626-3	Sustainable Design 1
IENG 719-3	Special Topics 1
IENG 723-3	Wood Design 2
IENG 724-3	Building Science 2
IENG 727-3	Wood Processing
IENG 729-3	Special Topics 2
IENG 731-9	Project Design 3
IENG 738-3	Analysis
IENG 739-3	Special Topics 3

Interdisciplinary Studies (MA & MSc Programs)

IDIS Program Chair – Dr. Blanca Schorch

Website: www.unbc.ca/interdisciplinary-studies

The IDIS program covers the scope of multiple disciplines, enabling faculty from other graduate programs to participate in this program. Therefore, the IDIS Graduate Program welcomes all faculty members eligible to be supervisors to participate in the IDIS Graduate Program. Please see the complete faculty listing.

Not all advances in knowledge, or in creativity, take place within established disciplines. In fact, innovative thinking and creativity may be unleashed by diminishing, bridging, or deliberately removing the boundaries between disciplines. The University of Northern British Columbia provides two options for interdisciplinary inquiry.

The MA option in Interdisciplinary Studies is specifically designed to enable students to pursue intellectual development outside the constraints of traditional disciplines in the Humanities and Social Sciences. The MSc option in Interdisciplinary Studies is specifically designed to enable students to go beyond the constraints of traditional disciplines in the Physical and Life Sciences. Applicants interested in interdisciplinary studies should consult the Chair of the IDIS program directly for advice on which option would be most appropriate for their research interests, and on how to tailor a course of study appropriate to their interests.

Applicants may undertake an Interdisciplinary Studies Program only under the following circumstances:

- The applicant has a well-conceived idea of the courses needed for the IDIS Program and of a thesis topic that the applicant wishes to pursue; and
- The intellectual rationale of the thesis must be interdisciplinary; that is, it must draw from at least two of the university programs described in the UNBC Graduate Calendar.

Students in the Program must complete the following requirements:

- All interdisciplinary programs shall include a 12 credit-hour thesis, and shall be composed of a minimum total of 27 credit hours;
- The number of courses included in an IDIS Program shall be at least four in addition to the IDIS core course; and
- A student may not take all courses, nor all but one course, from the same program.

Steps to Take in Arranging an Interdisciplinary Graduate Program

It is the applicant's responsibility to provide a one page research statement. To assist in the preparation of the needed documentation, applicants should follow these steps:

1. Determine that you meet the general graduate admission requirements at the University of Northern British Columbia by reviewing the admission requirements in the calendar. See Graduate Programs Admissions and Regulations;
2. Determine that your research topic is interdisciplinary in nature;
3. Consult the graduate advisors from the academic units relevant to your proposal to obtain specific information on course requirements and prerequisites;
4. Prepare a one page research statement to give to potential supervisors (for assistance see the section on Guidelines for Preparing a Research Proposal presented below);
5. Select/confirm potential supervisors using the faculty listings in the University Calendar as well as the program websites. Arrange meetings or contact supervisors by telephone or e-mail. (Do not send inquiries to every faculty member in a program. Choose the appropriate contacts);
6. Program willingness to participate in your academic program is required, necessitating signatures on the Interdisciplinary Graduate Program Proposal Coversheet as follows:
 - Student signs form and gives it to the Supervisor who then obtains signatures from the Supervisor's Chair, IDIS Program Chair, and Vice President Research and Graduate Programs or designate;
7. Submit your completed Application for Admission and the Interdisciplinary Graduate Program Proposal Coversheet, along with your research statement, to the Graduate Studies Officer, Office of the Registrar. In addition, you need to identify at least one course that will be taken in the first semester, along with the required IDIS core course; and
8. Arrange for official transcripts and three reference letters (at least two of the letters are to be academic) to be sent directly to the Graduate Studies Officer, Office of the Registrar.

Admission

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Interdisciplinary Studies MA and MSc Program accepts students for the September, January and May Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Students seeking admission to the Interdisciplinary Studies Program should apply directly to the Office of the Registrar.

Guidelines for Preparing a Research Proposal for an Interdisciplinary Program

In the one page statement, you must identify the topic and the supervisory committee membership. You also must explain why the proposal requires an interdisciplinary approach.

The guidelines that follow are designed to assist you in preparing a properly documented application. You should put together an outline of your ideas, so that you can share this with potential supervisors. Once you have the agreement of a potential supervisor, you can seek their assistance in refining and completing the application.

I. Research Statement

1. Please specify the working title of your research. This should describe the topic and its key elements (e.g., time period, place, texts/authors, etc.).
2. Provide a statement of your research question(s) or research objective(s). The statement should be a clear, brief description of the topic area, with emphasis on the particular issue to be investigated in this area. Make sure to define terms and use language accessible to a non-specialist audience.
3. Identify what makes your research statement interdisciplinary.
 - Identify the academic courses and the experiences that have prepared you to undertake the proposed research project.
 - Specify the prospective courses that you wish to include in your program of study.
4. Consider the members of your proposed supervisory committee and the relevant expertise they will bring to the project.

Any eligible faculty member at UNBC may supervise students in the Interdisciplinary Studies Program.

Specialization in Métis and Canadian Studies

This specialization within the Interdisciplinary MA degree provides students with the means to pursue a detailed analysis of the social and cultural history of British Columbia and adjacent territories to better understand the history of Métis and Canadian in the province, country and continent during and after the fur trade. Students combine expertise in a number of disciplines to better understand the past as well as contemporary communities.

International Studies (MA Program)

Graduate supervisors are normally drawn from the Departments of Economics and International Studies.

Paul Bowles, Professor
Fiona MacPhail, Professor
Chris Opio, Professor
Jalil Safaei Boroojeny, Professor
Heather Smith, Professor
Baotai Wang, Professor
Gary Wilson, Professor
Karima Fredj, Associate Professor
Jacqueline Holler, Associate Professor
Tristan Pearce, Associate Professor
Angèle Smith, Associate Professor
Nathan Andrews, Assistant Professor

Website: www.unbc.ca/international-studies-graduate-program

UNBC's innovative and interdisciplinary Master's degree in International Studies focuses on two of the most pressing and interlinked issues of our time: Global Development and Environment. The program draws on courses from 11 different graduate programs and is managed jointly by the Department of Economics and the Department of Global and International Studies.

Broadly understood as processes that affect people(s), regions and/or countries in the Global South and northern areas including the Arctic, global development is examined from multiple perspectives. These perspectives include those of international agencies and civil society organizations. Both mainstream and critical approaches to development studies are examined. The challenges facing the global environment and potential solutions are analysed. Interactions between global development and the environment and between local and global scales are examined.

Financial assistance in the form of teaching assistantships is available to some full-time students, in accordance with University regulations.

Requirements

All students are normally admitted into a course-based program. Students wishing to transfer to a thesis- or a research paper-based program may apply to do so in accordance with program rules after completing 12 credit hours.

Students are required to take courses that satisfy requirements as listed below in Global Development: Theory and Institutions; Research Methods; and Global Environment: Policies and Practices. Two elective courses are also required. Courses may be taken in any order.

Required Courses:

Global Development: Theory and Institutions

One of the following:

ECON 601-3	Global Economy and Development
ECON 604-3	Poverty, Inequality and Development
INTS 620-3	International Regimes
POLS 615-3	Comparative Northern Development

Research Methods

INTS 700-3 Research Methods in Global Studies

Global Environment: Policies and Practices

One of the following:

ANTH 613-3	Environmental Anthropology
ECON 625-3	Trade and the Environment
HIST 704-3	Themes in Environmental History
INTS 621-3	The Political Economy of Natural Resource Extraction
NRES 703-3	Integrated Resource Management

Electives:

Two of the following:

ANTH 601-3	Anthropological Perspectives on Inequality
ANTH 604-3	Comparative Study of Indigenous Peoples of the World
ECON 610-3	Health Economics
ECON 611-3	Cost-Benefit Analysis
ENVS 602-3	Environment and Natural Resources Issues and Ethics
FNST 606-3	Indigenous Issues in International Perspective
FNST 607-3	Indigenous Perspective on Race, Class, Gender and Power
FNST 613-3/ GNDR 613-3	Themes in Aboriginal Women's Studies
GEOG 603-3	First Nations and Indigenous Geographies
GEOG 626-3	Geographies of Culture, Rights and Power
GNDR 611-3	Contemporary Feminist Theories
HIST 702-3	Themes in Indigenous History
ORTM 603-3	International Dimensions of Recreation and Tourism
POLS 613-3	Democracy and Diversity

Additional courses from the Global Development and Global Environment options can also be selected as electives.

In addition, students are required to pass:

INTS 702-0.5 Graduate Colloquia*

*All students must complete INTS 702-0.5 Graduate Colloquia twice during their program of study.

International Studies

Students then complete one of the following:

i) a course-based program consisting of 9 credit hours of further graduate coursework. Students in the course-based program must complete at least 6 credit hours of coursework from the Global Development options, 6 credit hours from the Global Environment options, and have courses from at least three different subject areas;

ii) a research paper-based program consisting of 6 credit hours of further graduate coursework from all courses listed above (at least 3 credit hours of which must be from the Global Development or Global Environment options) and a 3 credit hour Research Paper;

iii) a thesis-based program consisting of a 12 credit hour thesis (INTS 799-12)

All course selections and course substitutions require Chair approval.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The International Studies MA Program accepts students for the September and January Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Mathematical, Computer, Physical, and Molecular Sciences (MSc Program)

Chair of the Mathematical, Computer, Physical and Molecular Sciences
Graduate Committee: Dr. Alex Aravind

Biochemistry

Chow H. Lee, Professor
Geoffrey Payne, Professor
Stephen Rader, Professor
Kerry Reimer, Professor
Andrea Gorrell, Associate Professor
Sarah Gray, Associate Professor
Kendra Furber, Assistant Professor
Martha Stark, Adjunct Professor
Daniel Erasmus, Senior Lab Instructor

Chemistry

Erik Jensen, Professor
Chow H. Lee, Professor
Jianbing Li, Professor
Margot Mandy, Professor
Guy Plourde, Professor
Stephen Rader, Professor
Kerry Reimer, Professor
Ron Thring, Professor
Andrea Gorrell, Associate Professor
Todd Whitcombe, Associate Professor
Martha Stark, Adjunct Professor

Computer Science

Alex Aravind, Professor
Liang Chen, Professor
Waqar Haque, Professor
David Casperson, Associate Professor
Jernej Polajnar, Associate Professor
Roger Wheate, Associate Professor
Andreas Hirt, Adjunct Professor
Desanka Polajnar, Adjunct Professor
Allan Kranz, Senior Lab Instructor

Mathematics

Lee Keener, Professor Emeritus

Jennifer Hyndman, Professor
Kevin Keen, Professor
Pranesh Kumar, Professor
Samuel Walters, Professor
David Casperson, Associate Professor
Mohammad El Smaily, Associate Professor
Daniel Ryan, Associate Professor
Alia Hamieh, Assistant Professor
Andy Wan, Assistant Professor

Physics

Ahmed Hussein, Professor Emeritus
Mark Shegelski, Professor Emeritus

Ian Hartley, Professor
Erik Jensen, Professor
Elie Korkmaz, Professor
Margot Mandy, Professor
Matthew Reid, Associate Professor

Website: www.unbc.ca/calendar/graduate/math-comp-science

Mathematical, Computer, Physical and Molecular Sciences (MCPMS) is one stream of the Master of Science degree in the College of Science and Management. Thesis and project options are available. The thesis option has, as a substantial component, the completion of an original research program, culminating in the preparation of a thesis, and prepares graduates for careers in research or for further academic study. The project option provides training across disciplines particularly suitable to individuals with more defined career objectives, as well as provides a mechanism for non-traditional students (e.g., working students, teachers, and professionals) to upgrade their skills. Students within the MCPMS stream will, upon successful completion of the degree requirements outlined herein, obtain an MSc with one or any combination of the following study areas noted on their transcript: Mathematics, Biochemistry, Computer Science, Chemistry, and Physics.

All students must participate in a Graduate Seminar course (one of MCPM 704-1.5, BCMB 704-1.5, NRES 704-1.5, CPSC 704-1.5, MATH 704-1.5, or CHEM 714-1.5) for at least two semesters during their course of studies. Normally, students in the study area of Physics or a combination of study areas including Physics are expected to take PHYS 710-3.

Thesis Option

The Master of Science thesis option is designed for candidates who wish to develop career interests related to scientific research or who intend to pursue further academic research degrees. The degree is expected to attract students from traditional science disciplines such as physics, chemistry, biochemistry, mathematics, and computer science. MSc students within the MCPMS stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 12 credit

Mathematical, Computer, Physical, and Molecular Sciences

hours of approved electives, and a 12 credit-hour thesis (MCPM 790-12). It is expected that the electives will consist of scientifically oriented courses and that the thesis will involve an independent investigation resulting in a scientific contribution.

The 12 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available at UNBC. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area undertaken by the student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 12 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Related to the MSc thesis (MCPM 790-12), students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), (c) give a public lecture on the completed thesis, and (d) present an oral defense of the thesis to the examining committee. All course requirements must have been satisfied prior to the oral defense.

Summary of Thesis Option

Graduate Seminar	3 credit hours
Elective Courses	12 credit hours
MSc Thesis	12 credit hours
Total Required	27 credit hours

Project Option

The Master of Science project option is designed for candidates who wish to upgrade their skills, or who are constrained in their ability to undertake a traditional research thesis. MSc students within the MCPMS project stream are required to complete 3 credit hours of Graduate Seminar, a minimum of 18 credit hours of approved electives, and a 6 credit-hour project. Given the course-intensive nature of this option, MSc projects are limited, subject to sufficient teaching resources and a critical mass of faculty within an area of defined specialization. It is expected that the electives will consist of scientifically oriented courses, and that the project will involve an independent investigation resulting in a scientific contribution, although this contribution need not include original research. Because of the high weighting of course offerings for this option, it is restricted to designated specializations that have been decided upon within each program area. Designation of a specialization implies that sufficient resources are available to ensure that required courses within the specialization can be offered to fulfill the requirements for the degree.

The 18 elective credit hours must be graduate-level study (i.e., at or above the 600 level) selected from the science courses available within the designated specialization. A maximum of 6 credit hours from independent studies can be counted towards the elective requirement. Normally, students in the study area of Physics or a combination of study areas including Physics are expected to take PHYS 710-3. Specific details of coursework are determined by the

nature of the project undertaken by each student. The supervisory committee ensures the appropriate selection of elective courses, and may require a student to complete more than 18 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

In order to complete an MSc project successfully, a student is required to (a) make a presentation of the project proposal to the supervisory committee, (b) write a project report, (c) give a public lecture on the completed project, and (d) pass an evaluation of the project and report with the examining committee. All core and elective course requirements must have been satisfied prior to the oral presentation of the project.

Summary of Project Option

Graduate Seminar	3 credit hours
Elective Courses	18 credit hours
MSc Project	6 credit hours
Total Required	27 credit hours

Recommended Progression

The normal time for completion of the MSc is two academic years. While this is the recommended time line, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

The Graduate Seminar courses (one or more of MCPM 704-1.5, NRES 704-1.5, BCMB 704-1.5, CPSC 704-1.5, MATH 704-1.5, CHEM 714-1.5) are offered during all September and January Semesters. Students are expected to enroll in a seminar course at least two times during their degree program.

Electives may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended their proposal to the supervisory committee. This allows the student to undertake the collection of data during the Summer of Year I. It is expected that the student will have successfully defended the thesis or completed the evaluation phase of the project by the end of Year II.

Admission, Regulations and Committee Structures

Admission Requirements

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Applicants must also provide a completed Teaching Assistantship Application and a completed Funding Worksheet. Both forms are included with the application material for this program. Normally, at least two of the three letters of recommendation, exclusive of any letter provided

by an intended supervisor, must be from individuals who are able to comment on the applicant's academic and research potential. Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Mathematical, Computer, Physical and Molecular Sciences MSc Program accepts students for the September and January Semesters. At the specific request of the prospective supervisor, an applicant may be considered for May admission. For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Transfer Students

On the recommendation of the program concerned, the Vice Provost Student Recruitment or designate may accept courses taken at other institutions for credit toward a UNBC graduate program. At the time of application, it is recommended that applicants clearly state in a letter the intent to transfer courses and identify the courses to be considered for possible transfer.

Normal Time Required for Completion

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances and the nature of their research or project involvement.

Committee Structure

Students are advised by a supervisory committee consisting of at least three members, including the academic supervisor who will normally serve as the chair of the committee. At least one of the committee members must be from outside of the student's program. The committee will be struck during the student's first term of study.

Natural Resources and Environmental Studies (MA Program)

Chair of the Natural Resources and Environmental Studies Graduate Program: Dr. Roger Wheate

Geography

Gail Fondahl, Professor (Geography)
Greg Halseth, Professor, and Canada Research Chair, Rural and Small Town Studies (Geography)
Neil Hanlon, Professor (Geography)
Jueyi Sui, Professor (Environmental Engineering)
Sarah de Leeuw, Associate Professor (Northern Medical Program)
Zoe Meletis, Associate Professor (Geography)
Catherine Nolin, Associate Professor (Geography)
Margot Parkes, Associate Professor and Canada Research Chair in Community Health/Environmental Health/Rural, Remote, Aboriginal and Northern Health Health Sciences (Natural Resources and Environmental Studies)
Roger Wheate, Associate Professor (Geography)
Mark Groulx, Assistant Professor (Environmental Planning)
Darwin Horning, Assistant Professor (Environmental Planning)
John Rex, Adjunct Professor (Geography)
Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Environmental Studies

Annie Booth, Professor (Ecosystem Science and Management)
Gail Fondahl, Professor (Geography)
Jueyi Sui, Professor (Environmental Engineering)
David Connell, Associate Professor (Environmental Planning)
Balbinder Deo, Associate Professor (Business Management)
Karima Fredj, Associate Professor (Economics)
Zoë Meletis, Associate Professor (Geography)
Philip Mullins, Associate Professor (Outdoor Recreation and Tourism Management)
Michael Murphy, Associate Professor (Political Science) and Canada Research Chair, Comparative Indigenous-State Relations
Guido Wimmers, Associate Professor (Integrated Wood Engineering and Design)
Darwin Horning, Assistant Professor (Environmental Planning)
Loraine Lavalley, Assistant Professor (Psychology)
Catherine Whalen, Assistant Professor (Education)
John Rex, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Outdoor Recreation, Conservation and Tourism

Philip Mullins, Associate Professor (Outdoor Recreation and Tourism Management)
John Shultis, Associate Professor (Outdoor Recreation and Tourism Management)
Pamela Wright, Associate Professor (Outdoor Recreation and Tourism Management)
Catherine Whalen, Assistant Professor (Education)
Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Website: www.unbc.ca/nres-graduate-program

The Master of Arts in Natural Resources and Environmental Studies [MA (NRES)] offers students the opportunity to pursue studies of the social dimensions of human-environment interactions, from a community-based or regional perspective. The degree is distinguished by its focus on human perspectives on historical and contemporary resource and environmental issues. It encourages the study of the social, cultural, ethical, economic and political dynamics of resource and land use, and environmental change in northern ecosystems.

Students must choose from the following areas of study:

- Geography
- Environmental Studies
- Outdoor Recreation, Conservation and Tourism

All students must complete Graduate Colloquia NRES 701-0.5 twice during their course of studies, NRES 700-3 and a research methods course approved by their supervisor and the Chair of the NRES graduate program. These required courses will provide students with an informed, integrated base for understanding multi-faceted resource and environmental issues. Elective courses will provide students with the option to pursue their specialized interests.

Candidates must complete a minimum of 6 elective credit hours at the graduate level (i.e., at or above the 600 level) that emphasize the human dimensions of resource or environmental issues. A maximum of 3 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area chosen by each student. The supervisory committee will ensure the appropriate selection of elective courses, and may require a student to complete more than 6 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

The MA (NRES) degree also requires students to write and defend an independent research thesis (NRES 794-12).

Summary

Core Courses	4 credit hours
Methods Course	3 credit hours
Elective Courses	6 credit hours
MA Thesis	12 credit hours
Total Required	25 credit hours

Students must meet UNBC's residency requirements.

Recommended Progression

The normal time for completion of the MA (NRES) is two academic years. While this is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

Research in Natural Resources and Environmental Studies (NRES 700-3) is offered annually in the September Semester. Students normally enroll in this course in Year I of their program. This timing allows students to pursue their area of specialization with a methods course or elective courses during the September Semester, in order to develop an interest-specific framework within which to pose methodological questions for the thesis proposal.

The Graduate Colloquia (NRES 701-0.5) is offered during the September and January Semesters. Students are required to enroll in this course, which lasts two semesters, once during their degree program.

Electives and the required methods course may be taken at any time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis proposal. By the end of the second semester, the student should have successfully defended the thesis proposal to the supervisory committee, allowing the student to undertake the collection of data during the summer of Year I. The student is expected to have successfully defended the thesis by the end of Year II.

Admission, Regulations and Committee Structures

Admission Requirements

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MA program will be contingent upon the prospective student finding a member of the faculty to serve as her/his supervisor. Applicants must also provide a completed Teaching Assistantship Application and a completed Funding Worksheet. Both forms are included with the application material for this program. Normally, at least two of the three letters of recommendation, exclusive of any letter provided by an intended supervisor, must be from individuals who are able to comment on the applicant's academic and research potential.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Natural Resources and Environmental Studies MA Program accepts students for the September, January and May Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Transfer Students

On the recommendation of the program concerned, the Vice Provost Student Recruitment or designate may accept courses taken at other institutions for credit toward a UNBC graduate program.

Normal Time Required for Completion

Normally, the degree should be completed in two years. Part-time students would usually take longer to complete the degree depending on their personal circumstances and the nature of their research involvement.

Committee Structure

Students will be advised by a supervisory committee consisting of at least three members, including the academic supervisor who will serve as the chair of the committee. At least one of the committee members must be from outside the student's program. The committee will be struck during the student's first term of study.

Natural Resources and Environmental Studies (MNRES Program)

Chair of the Natural Resources and Environmental Studies Graduate Program: Dr. Roger Wheate

Annie Booth, Professor (Ecosystem Science and Management)
Philip Burton, Professor (Ecosystem Science and Management)
Darwyn Coxson, Professor (Ecosystem Science and Management)
Gail Fondahl, Professor (Geography)
Arthur Fredeen, Professor (Ecosystem Science and Management)
Greg Halseth, Professor, and Canada Research Chair, Rural and Small Town Studies (Geography)
Ian Hartley, Professor (Ecosystem Science and Management)
Peter Jackson, Professor (Environmental Science and Engineering)
Chris Johnson, Professor (Ecosystem Science and Management)
Kathy Lewis, Professor (Ecosystem Science and Management)
Hugues Massicotte, Professor (Ecosystem Science and Management)
Chris Opio, Professor (Ecosystem Science and Management)
Ellen Petticrew, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology (Geography)
Mark Shrimpton, Professor (Ecosystem Science and Management)
Youmin Tang, Professor (Environmental Science and Engineering)
David Connell, Associate Professor (Ecosystem Science and Management)
Scott Green, Associate Professor (Ecosystem Science and Management)
Steve Helle, Associate Professor (Environmental Engineering)
Zoë Meletis, Associate Professor (Geography)
Philip Mullins, Associate Professor (Outdoor Recreation and Tourism Management)
Margot Parkes, Associate Professor and Canada Research Chair in Community Health/Environmental Health/Rural, Remote, Aboriginal and Northern Health Sciences (Natural Resources and Environmental Studies)
Paul Sanborn, Associate Professor (Ecosystem Science and Management)
John Shultis, Associate Professor (Outdoor Recreation and Tourism Management)
Roger Wheate, Associate Professor (Geography)
Pamela Wright, Associate Professor (Outdoor Recreation and Tourism Management)
Mark Groulx, Assistant Professor (Environmental Planning)
Darwin Horning, Assistant Professor (Environmental Planning)
Asif Iqbal, Assistant Professor (Integrated Wood Engineering and Design)

Eduardo Martins, Assistant Professor (Ecosystem Science and Management)
Catherine Whalen, Assistant Professor (Education)
Jianhui Zhou, Assistant Professor (Integrated Wood Engineering and Design)

Website: www.unbc.ca/nres-graduate-program

The Master of Natural Resources and Environmental Studies (MNRES) is designed to integrate the complementary aspects of resource and environmental issues. It focuses on an interdisciplinary approach to melding traditional science with social science perspectives, and resource planning and management. This degree is designed to attract students with a diverse range of backgrounds and aspirations who share an interest in looking beyond traditional disciplinary boundaries.

The MNRES degree is one Master's degree route within the Natural Resources and Environmental Studies Graduate Program (the others are an MA and an MSc). The MNRES is the only one of the three degrees that fully embraces the interdisciplinary philosophy of the faculty. There are three factors that determine whether a student pursues the MNRES degree: 1) student's background; 2) elective courses undertaken at UNBC; and 3) thesis topic. Depending on individualized learning objectives, the MNRES degree allows flexibility in choosing a research emphasis in the social, planned or natural environments from an interdisciplinary perspective.

All students must complete Graduate Colloquia (NRES 701-0.5) twice during their course of studies, take a course in integrated resource management (NRES 703-3), complete NRES 700-3 and complete a research methods course approved by their supervisor and the Chair of NRES Graduate Program. These required courses provide students with an informed, integrated base for understanding multi-faceted resource and environmental issues. Elective courses provide students with the opportunity to pursue their specialized interests within an interdisciplinary context. The MNRES degree also requires the completion of an independent research thesis (NRES 792-12) or project (NRES 793-6).

Thesis Option

Students pursuing the MNRES thesis route must write and defend an independent research thesis (NRES 792-12) which incorporates research design and implementation addressing an integrated research problem. Candidates must complete a minimum of 3 elective credit hours at the graduate level (i.e., at or above the 600 level) that emphasize an integrated approach to natural resource issues. A maximum of 3 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area chosen by each student. The supervisory committee will ensure the appropriate selection of elective courses, and may require a student to complete more than 3 credit hours if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Summary of Thesis Option

Core Courses		19 credit hours
NRES 700-3	Research in Natural Resources and Environmental Studies	
NRES 701-0.5	Graduate Colloquia (taken twice)	
NRES 703-3	Integrated Resource Management	
NRES 792-12	Master of Natural Resources and Environmental Studies Thesis	
Methods Course		3 credit hours
Elective Courses		3 credit hours
Total Required		25 credit hours

Project Option

The project option is designed primarily for students who wish to enhance their professional career skills. Students pursuing this option must complete a project (NRES 793-6)—an extended position paper, report, or plan—that addresses a major problem or issue relevant to the field of natural resources and environmental studies. Candidates must complete a minimum of 9 credit hours of approved elective courses at graduate level (i.e., at or above the 600 level) that result in a broad, well-informed, and integrated exposure to natural resources and environmental issues. A maximum of 3 credits from independent studies can be counted towards the elective requirement. The supervisory committee will ensure appropriate elective course selection, and may require a student to complete more than 9 credits if weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

Students are required to pass an evaluation of the project set by the supervisory committee.

Summary of Project Option

Core Courses		13 credit hours
NRES 700-3	Research in Natural Resources and Environmental Studies	
NRES 701-0.5	Graduate Colloquia (taken twice)	
NRES 703-3	Integrated Resource Management	
NRES 793-6	Master of Natural Resources and Environmental Studies Project	
Methods Course		3 credit hours
Elective Courses		9 credit hours
Total Required		25 credit hours

Recommended Progression

The normal time for completion of the MNRES is two academic years. While two years is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

Research in Natural Resources and Environmental Studies (NRES 700-3) is offered annually in the September Semester. Students will normally enroll in this course in Year I of their program. This timing

allows students to pursue their area of specialization with method course or elective courses during the September Semester, in order to develop an interest-specific framework within which to pose methodological questions for the thesis or project proposal.

The Graduate Colloquia (NRES 701-0.5), taken twice, is offered during the September and January Semesters. Electives, the required methods course and Integrated Resource Management (NRES 703-3) may be taken at any time during Years I and II. The sequencing of courses is determined by the student in discussion with the supervisory committee.

Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, develops a thesis or project proposal. By the end of the second semester, the student should have successfully defended the thesis or project proposal to the supervisory committee, allowing the student to undertake the collection of data during the summer of Year I. The student is expected to have successfully defended the thesis by the end of Year II.

Admission, Regulations and Committee Structures

Admission Requirements

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MNRES program is contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Applicants must also provide a completed Teaching Assistantship Application and a completed Funding Worksheet. Both forms are included with the application material for this program. Normally, at least two of the three letters of recommendation, exclusive of any letter provided by an intended supervisor, must be from individuals who are able to comment on the applicant's academic and research potential.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Natural Resources and Environmental Studies MNRES Program accepts students for the September, January and May Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Transfer Students

On the recommendation of the program, the Vice Provost Student Recruitment or designate may accept courses taken at other institutions for credit toward a UNBC graduate program.

Normal Time Required for Completion

Normally, the degree should be completed in two years. Part-time students may take longer to complete the degree depending on their personal circumstances, and the nature of their research involvement.

Committee Structure

Students are advised by a supervisory committee consisting of at least three members, including the academic supervisor who serves as the chair of the committee. At least one of the committee members must come from outside the student's program. The committee is struck during the student's first term of study.

Natural Resources and Environmental Studies (MSc Program)

Chair of the Natural Resources and Environmental Studies Graduate Program: Dr. Roger Wheate

Biology

Michael Gillingham, Professor Emeritus (Ecosystem Science and Management)
Katherine Parker, Professor Emerita, and Ian McTaggart Cowan
Muskwa Kechika Research Professor (Ecosystem and Science Management)

Philip Burton, Professor (Ecosystem Science and Management)
Darwyn Coxson, Professor (Ecosystem Science and Management)
Russell Dawson, Professor (Ecosystem Science and Management)
Arthur Fredeen, Professor (Ecosystem Science and Management)
Dezene Huber, Professor (Ecosystem Science and Management)
Christopher Johnson, Professor (Ecosystem Science and Management)
Kathy Lewis, Professor (Ecosystem Science and Management)
Staffan Lindgren, Professor (Ecosystem Science and Management)
Hugues Massicotte, Professor (Ecosystem Science and Management)
William McGill, Professor (Ecosystem Science and Management)
Ken Otter, Professor (Ecosystem Science and Management)
Ellen Petticrew, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology (Geography)
Mark Shrimpton, Professor (Ecosystem Science and Management)
Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)
Scott Green, Associate Professor (Ecosystem Science and Management)
Brent Murray, Associate Professor (Ecosystem Science and Management)
Oscar Venter, Associate Professor and FRBC Research Chair (Ecosystem Science and Management)
Eduardo Martins, Assistant Professor (Ecosystem Science and Management)
Lisa Poirer, Assistant Professor (Ecosystem Science and Management)
John Pypker, Adjunct Professor (Ecosystem Science and Management)
Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Environmental Science

Annie Booth, Professor (Ecosystem Science and Management)
Darwyn Coxson, Professor (Ecosystem Science and Management)

Natural Resources and Environmental Studies

Stephen Déry, Professor and Canada Research Chair, Northern Hydrometeorology (Environmental Science and Engineering)
Arthur Fredeen, Professor (Ecosystem Science and Management)
Peter Jackson, Professor (Environmental Science and Engineering)
Jianbing Li, Professor (Environmental Engineering)
William McGill, Professor (Ecosystem Science and Management)
Brian Menounos, Professor, and Canada Research Chair, Glacier Change (Geography)
Chris Opio, Professor (Ecosystem Science and Management)
Philip Owens, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology (Environmental Science)
Ellen Pettitcrew, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology (Geography)
Michael Rutherford, Professor (Environmental Science and Engineering)
Jueyi Sui, Professor (Environmental Engineering)
Youmin Tang, Professor (Environmental Science and Engineering)
Ron Thring, Professor (Chemistry, Environmental Science and Engineering)
Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)
Karima Fredj, Associate Professor (Economics)
Steve Helle, Associate Professor (Environmental Engineering)
Paul Sanborn, Associate Professor (Ecosystem Science and Management)
Thomas Tannert, Associate Professor, and BC Leadership Chair in Tall Wood and Hybrid Structures Engineering
Oscar Venter, Associate Professor and FRBC Research Chair (Ecosystem Science and Management)
Todd Whitcombe, Associate Professor (Chemistry)
Guido Wimmers, Associate Professor (Integrated Wood Engineering and Design)
Eduardo Martins, Assistant Professor (Ecosystem Science and Management)
Joseph Shea, Assistant Professor (Geography)
John Pypker, Adjunct Professor (Ecosystem Science and Management)
Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)
Hossein Kazemian, Senior Lab Instructor, NALS

Forestry

Philip Burton, Professor (Ecosystem Science and Management)
Arthur Fredeen, Professor (Ecosystem Science and Management)
Ian Hartley, Professor (Ecosystem Science and Management)
Dezene Huber, Professor (Ecosystem Science and Management)
Christopher Johnson, Professor (Ecosystem Science and Management)
Kathy Lewis, Professor (Ecosystem Science and Management)
Staffan Lindgren, Professor (Ecosystem Science and Management)
Hugues Massicotte, Professor (Ecosystem Science and Management)
William McGill, Professor (Ecosystem Science and Management)
Chris Opio, Professor (Ecosystem Science and Management)
Ron Thring, Professor (Chemistry, Environmental Science and Engineering)
Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)
Scott Green, Associate Professor (Ecosystem Science and Management)
Paul Sanborn, Associate Professor (Ecosystem Science and Management)

Thomas Tannert, Associate Professor, and BC Leadership Chair in Tall Wood and Hybrid Structures Engineering
Oscar Venter, Associate Professor and FRBC Research Chair (Ecosystem Science and Management)
Asif Iqbal, Assistant Professor (Integrated Wood Engineering and Design)
Lisa Poirier, Assistant Professor (Ecosystem Science and Management)
Jianhui Zhou, Assistant Professor (Integrated Wood Engineering and Design)
John Pypker, Adjunct Professor (Ecosystem Science and Management)
Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Geography

Peter Jackson, Professor (Environmental Science and Engineering)
Brian Menounos, Professor, and Canada Research Chair, Glacier Change (Geography)
Philip Owens, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology (Environmental Science)
Margot Parkes, Associate Professor and Canada Research Chair in Community Health/Environmental Health/Rural, Remote, Aboriginal and Northern Health Health Sciences (Natural Resources and Environmental Studies)
Ellen Pettitcrew, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology (Geography)
Jueyi Sui, Professor (Environmental Engineering)
Youmin Tang, Professor (Environmental Science and Engineering)
Roger Wheate, Associate Professor (Geography)
Joseph Shea, Assistant Professor (Geography)
Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Outdoor Recreation, Conservation and Tourism

Philip Mullins, Associate Professor (Outdoor Recreation and Tourism Management)
John Shultis, Associate Professor (Outdoor Recreation and Tourism Management)
Pamela Wright, Associate Professor (Outdoor Recreation and Tourism Management)
Lisa Wood, Adjunct Professor (Ecosystem Science and Management) (co-supervisor only)

Website: www.unbc.ca/nres-graduate-program

Natural Resources and Environmental Studies (NRES) is one stream of the Master of Science degree in the College of Science and Management. This degree is designed for candidates whose research interests have a scientific emphasis and students from science disciplines such as biology, forestry, environmental science, and physical geography, as well as other scientifically oriented areas of resource management. Students studying within the NRES stream will, upon successful completion of the degree requirements outlined herein, obtain a MSc (NRES).

Students must choose from the following areas of study:

- Biology
- Environmental Science
- Forestry

Natural Resources and Environmental Studies

- Geography
- Outdoor Recreation, Conservation and Tourism

All students must complete Graduate Colloquia NRES 701-0.5 twice during their course of studies, NRES 700-3 and a research methods course approved by their supervisor and the Chair of the NRES graduate program.

Candidates must complete a minimum of 6 elective credit hours at the graduate level (i.e., at or above the 600 level), selected from the science courses available at UNBC or courses that emphasize a scientific orientation to natural resource issues. A maximum of 3 credit hours from independent studies can be counted towards the elective requirement. Specific details of coursework are determined by the research area chosen by each student. The supervisory committee will ensure the appropriate selection of elective courses, and may require a student to complete more than 6 elective credit hours if, for example, weaknesses in the student's background exist (including undergraduate prerequisites for graduate courses) or if additional courses are required for professional accreditation.

The MSc (NRES) also requires the completion of a research thesis (NRES 790-12) in which the student makes a scientific contribution to a traditional science field or to an applied understanding of resources and the environment. Students are required to (a) make an oral presentation of the thesis proposal to the supervisory committee, (b) write an original thesis based on the research completed (in accordance with established UNBC guidelines), (c) give a public lecture on the completed thesis, and (d) present an oral defense of the thesis to the examining committee. All core and elective course requirements must have been satisfied prior to the oral defense.

Summary

Core Courses	4 credit hours
Methods Course	3 credit hours
Elective Courses	6 credit hours
MSc Thesis	12 credit hours
Total Required	25 credit hours

Recommended Progression

The normal time for completion of the MSc is two academic years. While this is the recommended timeline, it may be adjusted at the discretion of the supervisory committee to suit a particular student's research and program needs.

Research in Natural Resources and Environmental Studies (NRES 700-3) is offered annually in the September Semester. Students normally enroll in this course in Year I of their program. This timing allows students to pursue their area of specialization with a methods course or elective courses during the September Semester, in order to develop an interest-specific framework within which to pose methodological questions for the thesis proposal.

The Graduate Colloquia (NRES 701-1) is offered during all September and January Semesters. Students are expected to enroll in this course, which lasts two semesters, once during their degree program.

Electives and the required methods course may be taken at any

time during Years I and II. The sequencing of electives is determined by the student in discussion with the supervisory committee. Over the September and January Semesters of Year I, the student, under the direction of the supervisory committee, will develop a thesis proposal. By the end of the second semester, the student should have successfully defended their thesis proposal to the supervisory committee, allowing the student to undertake the collection of data during the summer of Year I. The student is expected to have successfully defended the thesis by the end of Year II.

Admission, Regulations and Committee Structures

Admission Requirements

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, acceptance to the MSc program will be contingent upon the prospective student finding a member of the faculty to serve as their supervisor. Applicants must also provide a completed Continuing Teaching Assistantship Application and a completed Funding Worksheet. Both forms are included with the application material for this program. Normally, at least two of the three letters of recommendation, exclusive of any letter provided by an intended supervisor, must be from individuals who are able to comment on the applicant's academic and research potential.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Natural Resources and Environmental Studies MSc Program accepts students for the September, January and May Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Transfer Students

Upon the recommendation of the program concerned, the Vice Provost Student Recruitment or designate may accept courses taken at other institutions for credit toward a UNBC graduate program.

Normal Time Required for Completion

Normally, the degree should be completed in two years or less. Students may take longer to complete the degree depending on their personal circumstances, and the nature of their research.

Committee Structure

Students will be advised by a supervisory committee consisting of at least three members, including the academic supervisor who will normally serve as the chair of the committee. At least one of the committee members must be from outside of the student's program. The committee will be struck during the student's first term of study.

Natural Resources and Environmental Studies (PhD Program)

Chair of the Natural Resources and Environmental Studies Graduate Program: Dr. Roger Wheate

Michael Gillingham, Professor Emeritus (Ecosystem Science and Management)

Staffan Lindgren, Professor Emeritus (Ecosystem Science and Management)

Katherine Parker, Professor Emerita, and Ian McTaggart Cowan Muskwa Kechika Research Professor (Ecosystem Science and Management)

Annie Booth, Professor (Ecosystem Science and Management)

Philip Burton, Professor (Ecosystem Science and Management)

Darwyn Coxson, Professor (Ecosystem Science and Management)

Russell Dawson, Professor (Ecosystem Science and Management)

Stephen Déry, Professor (Environmental Science and Engineering)

Gail Fondahl, Professor (Geography)

Arthur Fredeen, Professor (Ecosystem Science and Management)

Greg Halseth, Professor, and Canada Research Chair, Rural and Small Town Studies (Geography)

Neil Hanlon, Professor (Geography)

Ian Hartley, Professor (Ecosystem Science and Management)

Dezene Huber, Professor (Ecosystem Science and Management)

Peter Jackson, Professor (Environmental Science and Engineering)

Christopher Johnson, Professor (Ecosystem Science and Management)

Kathy Lewis, Professor (Ecosystem Science and Management)

Jianbing Li, Professor (Environmental Engineering)

Hugues Massicotte, Professor (Ecosystem Science and Management)

William McGill, Professor (Ecosystem Science and Management)

Brian Menounos, Professor and Canada Research Chair, Glacier Change (Geography)

Michael Murphy, Professor and Canada Research Chair, Comparative Indigenous-State Relations (Political Science)

Chris Opio, Professor (Ecosystem Science and Management)

Ken A. Otter, Professor (Ecosystem Science and Management)

Philip Owens, Professor and Forest Renewal BC Endowed Chair, Landscape Ecology (Environmental Science)

Ellen Petticrew, Professor, and Forest Renewal BC Endowed Chair in Landscape Ecology (Geography)

Michael Rutherford, Professor (Environmental Science)

Mark Shrimpton, Professor (Ecosystem Science and Management)

Jueyi Sui, Professor (Environmental Engineering)

Youmin Tang, Professor (Environmental Science and Engineering)

Ron Thring, Professor (Chemistry, Environmental Science and

Engineering)

David Connell, Associate Professor (Ecosystem Science and Management)

Ché Elkin, Associate Professor, and FRBC/Slocan Mixed Wood Ecology Chair (Ecosystem Science and Management)

Karima Fredj, Associate Professor (Economics)

Scott Green, Associate Professor (Natural Resources and Environmental Studies)

Steve Helle, Associate Professor (Environmental Engineering)

Zoë Meletis, Associate Professor (Geography)

Brent Murray, Associate Professor (Ecosystem Science and Management)

Catherine Nolin, Associate Professor (Geography)

Margot Parkes, Associate Professor and Canada Research Chair in Community Health/Environmental Health/Rural, Remote, Aboriginal and Northern Health Health Sciences (Natural Resources and Environmental Studies)

John Shultis, Associate Professor (Outdoor Recreation and Tourism Management)

Thomas Tannert, Associate Professor, and BC Leadership Chair in Tall Wood and Hybrid Structures Engineering (Integrated Wood Engineering and Design)

Oscar Venter, Associate Professor, Ecosystem and Science Management, and Forest Renewal BC Endowed Chair in Growth and Yield and Forest Valuations (Natural Resources and Environmental Studies)

Roger Wheate, Associate Professor (Geography)

Guido Wimmers, Associate Professor (Integrated Wood Engineering and Design)

Pamela Wright, Associate Professor (Outdoor Recreation and Tourism Management)

Asif Iqbal, Assistant Professor (Integrated Wood Engineering and Design)

Loraine Lavalley, Assistant Professor (Psychology)

Eduardo Martins, Assistant Professor (Ecosystem Science and Management)

Joseph Shea, Assistant Professor (Geography)

Catherine Whalen, Assistant Professor (Education)

Hossein Kazemian, Senior Lab Instructor, NALS

Website: www.unbc.ca/nres-graduate-program

The PhD in Natural Resources and Environmental Studies [PhD (NRES)] offers students the opportunity to develop an advanced level of understanding and training in any one or a combination of scientific discipline(s) related to natural environments, the processes (e.g., biological, chemical, physical) that govern them, or the human dimensions (e.g., social, economic, political, cultural) that interact with them. The PhD (NRES) promotes an integration of the linkages between social, ethical, political, and cultural dimensions, and an understanding of basic ecological, biological, and physical attributes of natural resources. Emphasis is placed upon the student to acquire an interdisciplinary base upon which to found a “disciplinary” area of concentration. Graduates from this program who have an area of concentration and a familiarity with how other disciplines can contribute toward solving environmental problems should be capable of addressing a variety of natural resources and environmental issues from a number of perspectives.

Natural Resources and Environmental Studies

Students must complete 9 credit hours of interdisciplinary core courses: NRES 801-3, NRES 802-3, and NRES 803-3. These courses will provide all students with a framework, balanced in science and human dimensions, upon which a specific PhD program may be built. Also required is a compulsory seminar course (NRES 804-3), and a PhD thesis (NRES 890-12). Students may be required, at the discretion of their supervisory committee, to take additional courses within their area.

Students must pass three separate checks on their academic progress towards a PhD: a qualifying exam, a defense of thesis proposal, and a defense of the thesis. The qualifying exam is tailored to ensure a cross-disciplinary aptitude, and tests the student's grasp of the interdisciplinary nature of natural resource and environmental issues. The thesis proposal defense is tailored to ensure that a student has a grasp of their area of concentration, and therefore examines the level of knowledge within the area of concentration. Upon successfully passing both the qualifying examination and the thesis proposal defense, a student is granted candidate status, and embarks upon the thesis work under the supervision of their faculty advisor. Following completion of the research, the candidate must defend their thesis to an examination committee.

Summary

Required Core Courses	9 credits
Graduate Seminar	3 credits
PhD Thesis	12 credits
Total Required	24 credits

Recommended Progression

First Year: Core Courses, Qualifying Exam

During the first two semesters, the common set of three required core courses (NRES 801-3 Integrated Environmental Systems I, NRES 802-3 Integrated Environmental Systems II, and NRES 803-3 Integrated Environmental Systems III) will be taken. In addition, the graduate seminar (NRES 804-3) will be taken by all PhD students.

At the end of the second semester, PhD students will normally take a qualifying exam consisting of written and oral components. The general part of the exam should demonstrate the student's ability to synthesize and extrapolate from the interdisciplinary perspectives of natural resource management and environmental studies, at an integrative level and scope consistent with the core PhD courses (NRES 801-3, NRES 802-3, and NRES 803-3). The specialty part of the exam will assess the student's background knowledge and familiarity with the theory and methodology associated with their thesis topic.

Second Year: Area of Concentration, Defense of Thesis Proposal

If students are required to take additional courses to address deficiencies within their area of concentration, they will be able to select courses from relevant course offerings within the Natural Resources and Environmental Studies Graduate Program, as well as other UNBC programs, or from other accredited graduate programs in

other post-secondary institutions. In addition, students will normally conduct some exploratory research in their area of concentration.

Once coursework is substantially complete, the students will work towards finalizing a thesis proposal, a document demonstrating academic rigor, and of publishable quality. Students will be expected to present the thesis proposal before their committee, and to demonstrate their knowledge within their area of concentration. Normally, this defense will be scheduled either at the end of the third semester or at the beginning of the fourth semester of study.

Third to Fifth Year: Thesis

Upon successful completion of coursework, and the successful completion of the qualifying exam and the defense of thesis proposal, the student is officially designated as a PhD candidate, and proceeds to full-time work on the thesis under the direct supervision of the advisor and any other designated committee members. Any major changes made to the thesis proposal after approval by the committee will require the approval of the committee.

Under normal circumstances, a student is expected to complete their research and the writing of the thesis within three years of becoming a doctoral candidate.

Any student requiring more than three years (6 semesters) to complete a thesis must request an extension from their advisor and the Vice President Research and Graduate Programs or designate.

Oral Defense of the Thesis

When the student's advisor and committee have determined that the student has reached an acceptable level of completion on the thesis, the student will defend the research during an oral exam with the full examining committee. This defense, with the exception of committee deliberations, will be open to the public.

Admission, Regulations and Committee Structures

Admission Requirements

Students will normally be expected to hold a Master's degree from an accredited post-secondary institution. In exceptional cases, individuals with significant and relevant life experience may be admitted on probation. Normally, applicants must hold a cumulative GPA of 3.33 (B+) from the Baccalaureate and Master's degree, to be calculated over the last 30 credits of graded academic work. Acceptance to the PhD program will be contingent upon the prospective student finding a member of the faculty to serve as their advisor.

In addition to a completed UNBC Graduate Application Form, applicants must provide official transcripts from all post-secondary institutions attended; a statement of intent indicating the student's research interests, possible future career aspirations, and perceived fit within the Faculty mandate and research directions; a recent Curriculum Vitae; three letters of reference (including two from faculty members familiar with the prospective student's academic work); a

completed Teaching Assistantship Application; a completed Funding Worksheet; and a sample of written academic work. GRE scores are optional. Only students with high GPAs and innovative research interests are likely to be successful in their applications.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Natural Resources and Environmental Studies PhD Program accepts students for the September, January, and May Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Normal Time Required for Completion

The completion time for the PhD between initial admittance and final defense will normally range from three to five years.

Supervisory Committee Structure

The PhD Committee will consist of the designated advisor and a minimum of three additional faculty members, at least one of whom will be chosen from outside the Natural Resources and Environmental Studies Graduate Program. The outside faculty member may be chosen from post-secondary institutions accredited in Canada and the United States. Under exceptional circumstances, and with approval from the Vice President Research and Graduate Programs or designate, additional members may be added at the request of the student or the advisor. The expertise represented on the committee should reflect interdisciplinarity. The committee should be assembled by the beginning of the student's second semester of study (i.e., the January Semester) to facilitate the student preparing for the required Candidacy Exams.

Nursing MScN (FNP) and MScN Programs

- **Master of Science in Nursing: Family Nurse Practitioner Program (MScN (FNP))**
- **Master of Science in Nursing Program: Thesis or Project Option (MScN)**

Sylvia Barton, Associate Professor and Chair
Martha MacLeod, Professor

Davina Banner-Lukaris, Associate Professor

Caroline Sanders, Associate Professor

Lela Zimmer, 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

Gerrit Clements, Adjunct Professor

Tracey Day, Adjunct Professor

Heidi Dunbar, Adjunct Professor

Celia Evanson, Adjunct Professor

Tina Fraser, 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

Website: www.unbc.ca/nursing/family-nurse-practitioner-mscn-fnp
www.unbc.ca/nursing/graduate-programs

The Master of Science in Nursing: Family Nurse Practitioner Program is a practice-oriented, theory-based degree that prepares graduates to be autonomous practitioners, leaders, role models, and educators in primary health care. The focus of the Family Nurse Practitioner Program is general family practice—that is care for individuals, families, groups and communities across all life stages. Family Nurse Practitioners are health professionals who have achieved advanced nursing practice competencies at the graduate level of nursing education. Nurse Practitioners, who are regulated by the British Columbia College of Nursing Professionals, provide health care services from a holistic nursing perspective, integrated with the

Nursing

autonomous diagnosis and treatment of acute and chronic illness, including ordering diagnostic tests and prescribing medications.

The Master of Science in Nursing Program (Thesis or Project) leads to an advanced nursing practice degree that focuses on preparing graduates across a range of areas and specialties to act as autonomous practitioners. In addition, this program aims to prepare graduates as interprofessional collaborators, nurse researchers, leaders, educators, change agents, and role models. Graduates of this program will work in a variety of health care settings as clinical nurse specialists, educators, administrators, and researchers, and will work with diverse populations across all age groups.

Both programs focus on the preparation of graduates for advanced nursing practice in rural and northern communities. Courses address the following: community and program development and evaluation; debates influencing health care policy; application of research and evidence-based practice; promotion of the health of Indigenous Peoples; and development of nursing knowledge in relation to advanced practice nursing.

Required courses for the MScN (FNP) and MScN are available by distance, with some on-site (face-to-face) requirements and required clinical practice in the MScN (FNP) Program. The programs are designed to allow professional nurses to complete their degree on a full-time or part-time basis.

Criminal Records Search

All students in the Master of Science in Nursing program are required to submit a Criminal Record Check search prior to the first day of classes in their entry semester and prior to the commencement of their first clinical courses.

Domestic applicants must supply a Criminal Record Check search result after receiving an offer of admission and before the first day of classes; the search result is not required with the application. International applicants must submit a Criminal Record Check search result provided by their local policy authority upon application, and will also be required to submit a British Columbia Criminal Record Check if offered admission. The Office of the Registrar will provide instructions to domestic and international applicants who have accepted offers of admission on how to complete a British Columbia Criminal Record Check.

Immunizations

All students who will be undertaking clinical learning experiences must submit records of current status of the following immunizations prior to commencement of the clinical courses: diphtheria, tetanus, poliomyelitis, measles, mumps, rubella, hepatitis B and varicella. A Mantoux test (PPD) for tuberculosis is also recommended within one month of entering the clinical setting. Failure to have up-to-date immunizations may result in the student not being permitted to practice in a clinical setting.

CPR Certification

All students who will be undertaking clinical learning experiences

must provide proof of current CPR certification, level C, prior to commencement of the clinical courses.

British Columbia College of Nursing Professionals Requisite Skills and Abilities

All students who apply to the UNBC MScN (FNP) and MScN Programs must demonstrate the capacity to meet British Columbia College of Nursing Professionals (BCCNP) Requisite Skills and Abilities, and sign the BCCNP form attesting to that capacity.

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 BCCNP Professional Standards for Registered Nurses and Nurse Practitioners and the Canadian Nurses Association (CNA) Code for Ethics for Registered Nurses. Violation of professional standards may result in suspension or dismissal from the program or the educational institution.

Misconduct

Any conduct that violates the ethical or legal standards of UNBC or BCCNP, particularly those related to academic dishonesty and professional conduct, are considered serious offenses. Academic misconduct and/or professional misconduct may result in the student being required to withdraw from the MScN Program and possibly the University. Satisfactory academic performance is not the sole criterion for progression or graduation. The UNBC School of Nursing reserves the right to require a student to withdraw from the student's program if the student is considered to be unsuited to proceed with the study or practice of advanced practice nursing.

Academic Performance

All MScN students must adhere to all Graduate Program Admissions and Regulations as outlined in the UNBC Graduate Calendar. Students may be removed from a clinical learning experience or setting due to "unsafe or unprofessional" performance or conduct and may receive a final grade of F in that course.

MScN (FNP) Family Nurse Practitioner Program

Admission to Family Nurse Practitioner Program

In addition to the application requirements outlined in Section 1.0 of the Graduate Academic Calendar, applicants for the Family Nurse Practitioner Program are required to submit the following for consideration of admission:

- Three Assessment Reports on Applicant for Admission to Graduate Studies. Letters of reference may accompany the Assessment Reports. At least one of the assessments/letters must be from a health professional from the prospective

- student's most recent practice setting;
- An academic transcript showing undergraduate courses in nursing theory, health assessment, community health nursing, and research;
- Nursing practice résumé or curriculum vitae;
- Criminal records searches;
- Successful completion of the San'yas Indigenous Cultural Safety Training within the previous two years prior to the semester of admission to the MScN (FNP) Program;
- Evidence of at least two years' full-time practice experience, or equivalent, following completion of the Baccalaureate degree;
- Evidence of active registration as a nurse in British Columbia. Note that annual documentation of current, practicing BCCNP licensure is required while enrolled in the program.

Recommendations:

The following recommendations, if undertaken, may strengthen applications to the UNBC MScN (FNP) Program, and may be beneficial in preparing applicants for the demands of an MScN (FNP) graduate program. Applicants are strongly encouraged to successfully complete the following within three years prior to the semester of admission to the MScN (FNP) Program:

- an upper-division or graduate-level anatomy and physiology course
- an academic writing course
- a graduate-level research methods course

Application deadlines can be found in the Graduate Programs Admissions and Regulations section of the Graduate Calendar at www.unbc.ca/calendar/graduate/admissions.

The MScN (FNP) Program accepts students for the September Semester.

Family Nurse Practitioner Program Requirements

51 credit hours of MScN and Nurse Practitioner courses are required. On-site instruction is a required component of five courses. Placements for clinical experiences will be in rural and northern communities. A final project completes the degree.

NURS 602-3	Pathophysiology
NURS 603-3	Health Assessment and Diagnostic Reasoning
NURS 604-3	The Healing and Well-being of Indigenous Peoples
NURS 605-3	Pharmacological Management and Therapeutic Interventions
NURS 606-3	Developing Nursing Knowledge
NURS 607-3	Appraising and Synthesizing Evidence for Practice
NURS 608-3	Ethics, Accountability and Responsibility for Practice
NURS 703-3	Health Program Planning, Community Development and Evaluation
NURS 704-3	Leadership in Health Care and Practice
NURS 720-6	Practicum: Integrating Primary Health Care I
NURS 730-6	Practicum: Integrating Primary Health Care II
NURS 790-9	Nurse Practitioner Internship
NURS 798-3	Nurse Practitioner Project

Program Costs

Costs associated with study in the MScN (FNP) Program are the responsibility of the individual student, including transportation costs, and any expenses involved in academic studies, lab, and clinical practica. This includes travel, accommodation, and living expenses associated with required clinical practice or travel to campus for required face-to-face (on campus) coursework. See the Fees section in this calendar.

MScN Program - Thesis or Project Option

Admission to MScN Program

In addition to the application requirements outlined in Section 1.0 of the Graduate Academic Calendar, applicants for the Academic Master's Program are required to submit the following for consideration of admission:

- Three Assessment Reports on Applicant for Admission to Graduate Studies. Letters of reference may accompany the Assessment Reports. At least one of the assessments/letters must be from a health professional from the prospective student's most recent practice setting.
- An academic transcript showing undergraduate courses in nursing theory, health assessment, community health nursing, and research.
- Nursing practice résumé or curriculum vitae.
- Criminal records searches prior to being admitted.
- Evidence of active registration in the jurisdiction in which the student resides while taking the program. Note that annual documentation of current licensure is required while enrolled in the program.

Application deadlines can be found in the Graduate Programs Admissions and Regulations section of the Graduate Calendar at www.unbc.ca/calendar/graduate/admissions.

The MScN Program accepts students for the September and January Semesters.

Thesis Option Requirements

18 credit hours of MScN courses are required, as well as 3 credit hours of electives. Students must also complete a 12 credit hour independent research thesis, for a total of 33 credit hours.

NURS 604-3	The Healing and Well-being of Indigenous Peoples
NURS 606-3	Developing Nursing Knowledge
NURS 607-3	Appraising and Synthesizing Evidence for Practice
NURS 618-3	Research Approaches for Nursing and Health
NURS 619-3	Qualitative Research in Nursing and Health
or NURS 620-3	Quantitative Research in Nursing and Health
NURS 704-3	Leadership in Health Care and Practice

Electives

At least 3 credit hours of graduate-level study at or above the 600 level are required. The purpose of the elective(s) is to broaden the student's depth and scope of learning on a particular topic of interest. The supervisory committee will ensure the appropriate selection of relevant elective course(s).

Thesis

NURS 799-12 Thesis

MScN Thesis students must write and defend an independent research thesis. The thesis entails research in a topic area developed in consultation with the student's supervisory committee. Oral examination is required as per University regulations.

Project Option Requirements

18 credit hours of MScN courses are required, as well as 9 credit hours of electives. Students must also complete a 6 credit hour independent project, for a total of 33 credit hours.

NURS 604-3 The Healing and Well-being of Indigenous Peoples
NURS 606-3 Developing Nursing Knowledge
NURS 607-3 Appraising and Synthesizing Evidence for Practice
NURS 618-3 Research Approaches for Nursing and Health
NURS 703-3 Health Program Planning, Community Development and Evaluation
or NURS 705-3 Mobilizing Knowledge in Health and Health Care
NURS 704-3 Leadership in Health Care and Practice

Electives

At least 9 credit hours of graduate-level study at or above the 600 level are required. The purpose of the electives is to broaden the student's depth and scope of learning on a particular topic of interest. The supervisory committee will ensure the appropriate selection of relevant elective course(s).

Project

NURS 797-6 MScN Project

MScN Project students must write and defend an independently completed project. The project entails addressing a topic of concern within nursing practice, education, administration or policy, such as clinical or patient focused outcomes, evidence-informed practice, quality improvement, knowledge translation, or theoretical investigation.

Program Costs

Costs associated with study in the MScN are the responsibility of the individual student, including transportation costs, and any expenses involved in academic studies, lab, and clinical practica. This includes travel, accommodation, and living expenses associated with required clinical practice or travel to campus for required face-to-face (on campus) coursework. See the Fees section in this calendar.

Political Science (MA Program)

Alex Michalos, Professor Emeritus

Boris DeWiel, Associate Professor and Chair

Michael Murphy, Professor

Gary Wilson, Professor

Natalie Loukacheva, Associate Professor, and Canada Research Chair,
Aboriginal Governance and Law

Website: www.unbc.ca/political-science

A Master's degree in Political Science is designed for students who normally would have the equivalent of an undergraduate major in Political Science and want to undertake advanced training in scholarly research.

The graduate program provides students with an advanced education in the discipline of Political Science at all levels including local, regional, national and international spheres. We specialize in comparative politics, political philosophy and Aboriginal-state relations, with additional specialties in other areas. Each student's program of study is designed individually to meet their scholarly interests.

Admission

Successful applicants to the program will hold a four-year baccalaureate in Political Science, and will have obtained a GPA of at least 3.0 (B). UNBC and the Department of Political Science are committed to interdisciplinary co-operation, so students without undergraduate majors in Political Science may be admitted with special provisions made regarding coursework and thesis research programs.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Political Science MA Program accepts students for the September and January Semesters.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

Students may choose either a Thesis, a Project or a Course-based option.

Thesis Option

The requirements for the thesis option are four graduate courses, a thesis proposal, and a 12 credit-hour thesis. At least three of the four required graduate courses must be from the discipline of Political Science and must include POLS 702-3 Scope and Methods of Political Science or a suitable alternative chosen by the student's supervisor.

Project Option

The requirements for the project option are five graduate courses and a 9 credit-hour project. At least three of the five required graduate courses must be from the discipline of Political Science and must include POLS 702-3 Scope and Methods of Political Science or a suitable alternative chosen by the student's supervisor.

Course-based Option

The requirements for the course-based option are eight graduate courses. At least five of the eight required graduate courses must be from the discipline of Political Science and must include POLS 702-3 Scope and Methods of Political Science or a suitable alternative chosen by the student's supervisor, and POLS 795-3 Major Research Paper, which is overseen and graded by the student's supervisor.

Course Offerings

POLS 600-3	Classics in Political Theory
POLS 601-3	Resource Politics
POLS 603-3	Social and Health Policy and Administration
POLS 605-3	Topics in Society and Democracy
POLS 612-3	Aboriginal-State Relations
POLS 613-3	Democracy and Diversity
POLS 614-3	Comparative Federalism
POLS 615-3	Comparative Northern Development
POLS 617-3	Ethical Leadership
POLS 627-3	Ethics and Public Affairs
POLS 634-3	Resource Communities in Transition
POLS 672-3	Contemporary Theories of Political Community
POLS 698-3	Special Topics in Political Science
POLS 702-3	Scope and Methods of Political Science
POLS 704-3	Independent Study
POLS 795-3	Major Research Paper
POLS 797-9*	Graduate Project
POLS 799-12	Master's Thesis

Research

UNBC has a number of research institutes that focus on the social, political, and economic concerns of Northern British Columbia and similar regions elsewhere. Research among faculty in Political Science includes the mapping of aboriginal land claims in Russia, local government reform in Siberia, and analyses of public services and the quality of life of northern communities. Related research from faculty in other disciplines includes resource-community sustainability, health problems of aboriginal people in Northern British Columbia and Siberia, and Northern British Columbia child welfare issues.

Psychology (MSc Program)

Steven Cronshaw, Professor Emeritus
Kenneth Prkachin, Professor Emeritus

Paul Siakaluk, Professor and Chair
Sherry Beaumont, Professor
Han Li, Professor
William Owen, Associate Professor
Annie Duchesne, Assistant Professor
Lorraine Lavallee, Assistant Professor
Heath Matheson, Assistant Professor
James Climenhage, Adjunct Professor
Tammy Klassen-Ross, Adjunct Professor
Elizabete Rocha, Adjunct Professor
Julie Howard, Senior Lab Instructor

Website: www.unbc.ca/psychology

The MSc in Psychology at UNBC provides breadth in the substantive and methodological areas of Psychology, with a focus on health and human psychology. The MSc provides advanced research and experiential training so that graduates gain skills beneficial to academic and related areas.

Admission

Applicants must have an Honours degree in Psychology or an undergraduate degree in Psychology (or a related field) with research experience.

Students interested in applying for the MSc in Psychology are responsible for ensuring that all application materials are received at UNBC by the application deadline. Students are required to submit the following for consideration of admission:

- a completed application form;
- a curriculum vitae;
- a letter of interest;
- official transcripts from all post-secondary institutions;
- three letters of reference from academic referees; and
- a copy of a thesis or paper submitted for coursework.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Psychology MSc Program accepts students for the September Semester.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

Students in the MSc Program are required to complete a minimum of 20 credit hours of coursework including two quantitative methods courses:

PSYC 600-4	Univariate Statistics
PSYC 605-4	Multivariate Statistics

and four courses, two of which must be from the following:

PSYC 607-3	Social Psychology
PSYC 608-3	Psychology and Environmental Conservation
PSYC 609-3	Health Psychology
PSYC 611-3	Developmental Psychology
PSYC 618-3	Sensation and Perception
PSYC 621-3	Biopsychology
PSYC 622-3	Positive Psychology
PSYC 627-3	Cross-cultural psychology
PSYC 631-3	Psychopathology
PSYC 632-3	Cognition
PSYC 685-3	Current Methods in Psychological Research

These courses provide students with the basic foundations upon which to build their MSc research. In addition, all MSc students are required to successfully complete an MSc thesis (PSYC 690-12).

Students must have a Cumulative GPA of 3.33 (B+) or greater by the end of their second semester of registration, and maintain it at B+ or better thereafter.

Students may be required to address deficiencies within their background preparation in Psychology or in their area of concentration that are identified by the Psychology Graduate Committee. Additional courses may be required.

Normally, students present an acceptable thesis proposal to their supervisory committee by the end of their first year in the program. It is expected that defence of the Master's thesis will take place within two years of the commencement of the program.

Psychology (PhD Program)

Steven Cronshaw, Professor Emeritus
Kenneth Prkachin, Professor Emeritus

Paul Siakaluk, Professor and Chair
Sherry Beaumont, Professor
Han Li, Professor
William Owen, Associate Professor
Annie Duchesne, Assistant Professor
Lorraine Lavallee, Assistant Professor
Heath Matheson, Assistant Professor
James Climenhage, Adjunct Professor
Tammy Klassen-Ross, Adjunct Professor
Elizabete Rocha, Adjunct Professor
Julie Howard, Senior Lab Instructor

Website: www.unbc.ca/psychology

The PhD in Psychology at UNBC provides breadth in the substantive and methodological areas of Psychology, with a focus on health and human psychology. The PhD provides advanced research and experiential training so that graduates gain skills beneficial to academic and related areas.

More specifically, the objectives of the PhD program in Psychology is to develop scholars and researchers who can contribute to the larger body of scientific knowledge of psychology through research and have an advanced level of understanding of the psychological sciences, including comprehensive knowledge of contemporary theory and evidence in Psychology and a high level of methodological expertise.

Admission

Applicants must have both a Bachelor's and Master's degree, at least one of which must be in Psychology with a research-based thesis.

Students interested in applying for the PhD in Psychology are responsible for ensuring that all application materials are received at UNBC by the application deadline:

- a letter of interest;
- official transcripts from all post-secondary institutions;
- three letters of reference from academic referees; and
- a copy of a thesis or paper submitted for coursework.

Application deadlines are found in this calendar under Admissions and Regulations, or online at www.unbc.ca/calendar/graduate (under Semester Dates). The Psychology PhD Program accepts students for September semester admission.

For additional information about graduate admissions or to download application materials, go to the Graduate Programs website at www.unbc.ca/graduate-programs.

Requirements

Students in the PhD program are required to complete a minimum of 12 credit hours of coursework consisting of one graduate seminar:

PSYC 800-3 Graduate Seminar

3 credit hours of research practica:

PSYC 860-(3-6) Research Practicum

and two courses from the following:

PSYC 810-3	Cognitive Neuroscience
PSYC 815-3	Social Psychology
PSYC 820-3	Health Psychology
PSYC 825-3	Cognitive Neuropsychological Assessment
PSYC 826-3	Personality Assessment
PSYC 830-3	Psychological Interventions
PSYC 835-3	Cognition and Learning
PSYC 845-3	Developmental Psychology

Required courses in Psychology are offered on a two-year schedule. These courses provide students with the basic foundations upon which to build their PhD research. In addition, students are required to complete successfully a doctoral candidacy examination and a PhD dissertation (PSYC 890-12). The doctoral candidacy examination is tailored to ensure each student is adequately prepared to begin work on the PhD dissertation.

Students must have a Cumulative GPA of 3.33 (B+) or better by the end of their second semester of registration, and maintain it at B+ or better thereafter.

Students may be required to address deficiencies within their background preparation in Psychology or in their area of concentration that are identified by the Psychology Graduate Committee. Additional courses may be required.

Normally, students take a doctoral candidacy examination by the end of the first year in the program (or 12 credit hours for part-time students). Upon successfully completing the doctoral candidacy examination, and presenting an acceptable dissertation proposal to their supervisory committee, a student is granted PhD Candidate status, and embarks upon completion of the dissertation under the supervision of a Faculty Academic Supervisor. Normally, it is expected that the defence of the dissertation by full-time PhD Candidates take place within three years of acceptance into the program.

Social Work (MSW Program)

Glen Schmidt, Professor Emeritus

Joanna Pierce, Associate Professor and Chair
Bruce Bidgood, Associate Professor
Nancy Jokinen, Associate Professor
Indrani Margolin, Associate Professor
Heather Peters, Associate Professor
Dawn Hemingway, Associate Professor
Si Transken, Associate Professor
Susan Burke, Assistant Professor
Tammy Pearson, Assistant Professor

Website: www.unbc.ca/social-work

The Master of Social Work program is available on a full- or part-time basis and can be completed by thesis or practicum. The MSW builds on the BSW by offering students an integrated research/policy/practice concentration in one of the key thematic areas: social work in northern and remote areas; Indigenous peoples; women and the human services; and community practice and research. The aim of the MSW is to provide students with advanced social work research, policy, and practice skills. It is designed to enable students to pursue independent studies that will help them undertake a variety of responsibilities in management, policy formulation, program consultation, planning, advanced social work, clinical practice, and research within the human services.

Admission

Enrollment in the MSW is strictly limited.

In addition to the admission application requirements outlined in Section 1.0 of the Graduate Academic Calendar, all students in the Social Work MSW program are required to submit a Criminal Record Check search prior to the first day of classes in their entry semester.

Domestic applicants must supply a Criminal Record Check search result after receiving an offer of admission and before the first day of classes; the search result is not required with the application. International applicants must submit a Criminal Record Check search result provided by their local police authority upon application, and will also be required to submit a British Columbia Criminal Record Check if offered admission. The Office of the Registrar will provide instructions to domestic and international applicants who have accepted offers of admission on how to complete a British Columbia Criminal Record Check.

Completion of the MSW Supplementary Application form is also required in order to be considered for admission. The MSW Supplementary Application form is included with the application material for this program. Two academic letters of reference and one professional letter of reference must be submitted.

Social Work

Application deadlines can be found in the Graduate Programs Admission and Regulations section of the Graduate Calendar at www.unbc.ca/calendar/graduate/admissions.

The Social Work MSW program accepts students for the September Semester.

The MSW program at UNBC emphasizes a pro-active orientation that aims to provide informed theoretical, empirical, and substantive choices for improvements in human service programs, policies, education, and social work practice. This approach to social work and social policy is known as social administration.

The key elements in this social administration approach as they relate to the thematic areas of the MSW at UNBC consist of the following:

- the description and analysis of the operation of human services in northern and remote regions;
- the study of social policies and social work practices, and their individual and social consequences for the people and communities in the interior and northern British Columbia;
- the examination of global, historical, social, and economic changes, and the way these affect the living conditions and the people served by human service agencies and organizations in northern and remote areas; and
- the recognition of the values central to the responsibility of human service professionals to work with socially disadvantaged and powerless groups, and to expand the power and resources of these groups through social work practice.

Within this social administration approach courses are arranged so students develop skills that integrate the research/policy/practice domains of social work. A major emphasis of the MSW is to foster critical intervention skills that link the domains of social policy, social work research, and social work practice. For example, if one chooses to develop a specialty in community practice and research, or social policy, the program of studies will emphasize the linkages between these domains or dimensions of social work.

Requirements

Human service experience is required before candidates can be considered for the MSW program. Please see descriptions for Entry Routes 1 and 2 (below). To be admitted, a grade point average of at least 3.00 (B) in the work of the last 60 credit hours (approximately the last two years) leading to the Baccalaureate degree is required. Letters of reference, as well as a written statement of the candidate's research and practice interests and reasons for pursuing a MSW, are also required. A personal interview may be requested. Applicants who do not meet the above requirements may still be admitted under the provisions of affirmative action.

Taking a MSW at UNBC

There are two entry routes into the MSW.

Entry from a Bachelor of Social Work leads into the Advanced Year of the MSW program.

For full-time students entering from a BSW, this MSW program consists of 33 credit hours, including completion of a thesis or practicum report.

Thesis students are required to successfully complete a minimum 21 credit hours of five required courses and two electives, as well as a thesis to complete 33 credit hours in total. Practicum students are required to successfully complete a minimum of 24 credit hours of five required courses and three electives, as well as a practicum to complete 33 credit hours in total.

Entry with a Bachelor's degree in a related field or discipline, and two years (24 months full-time equivalent) human service experience. Entry at this level begins with an MSW Foundation Year of studies.

For full-time students entering from a Bachelor's degree in a related field, this MSW program consists of a minimum two-year (24 month) program of courses and practica. A thesis or practicum report is required following completion of coursework. An oral defense is required for the thesis. This route normally includes 66 credit hours, consisting of 33 credit hours in each of the two years.

MSW

Requirements

Thesis students must take the following required courses:

SOCW 602-3	Indigenous Peoples: Advanced Social Work Practice
SOCW 609-3	Advanced Quantitative Research
HHSC 703-3	Qualitative Research Approaches in Health and Human Sciences
SOCW 704-3	MSW Integrative Seminar
SOCW 700-12	MSW Thesis

Practicum students must take the following required courses:

SOCW 602-3	Indigenous Peoples: Advanced Social Work Practice
SOCW 609-3	Advanced Quantitative Research
HHSC 703-3	Qualitative Research Approaches in Health and Human Sciences
SOCW 704-3	MSW Integrative Seminar
SOCW 732-9	MSW Practicum II

All students are required to take one of the following courses, and may take the other two courses as electives:

SOCW 601-3	Current Issues in Northern/Remote Social Work
SOCW 603-3	Women: Policy/Practice Issues
SOCW 605-3	Community Work/Politics of Change

Electives

SOCW 604-3*	Directed Readings
SOCW 610-3	Wellness: Alternate Approaches
SOCW 613-3	Clinical Social Work Practice
SOCW 615-3	Multi-Cultural Social Work Practice
SOCW 640-3	Social Work Supervision and Leadership
SOCW 670-3	Indigenous Peoples in Canada: Past/Present/Future
SOCW 671-3	Reflections on Practice: Indigenous Child/Youth Mental Health
SOCW 672-3	Social Work/Counselling Skills with Indigenous Children/Youth
SOCW 673-3	Mental Illness and Addictions Among Indigenous Children/Youth
SOCW 674-3	Crisis Work with Indigenous Children/Youth: Restoring Balance
SOCW 675-3	Community-based Prevention with Indigenous Peoples: Creating Balance
SOCW 698-3	Special Topics
SOCW 701-3	Research Practicum

Thesis students are required to take two electives. These electives may be taken from the two lists immediately above, and/or from other UNBC graduate programs, and/or from other accredited Canadian universities via approved transfer agreements (e.g., the Western Deans' Agreement).

Practicum students are required to take a total of three electives, one of which must come from the two lists of courses immediately above. The other elective may come from the above lists and/or be taken from other UNBC graduate programs and/or from other accredited Canadian universities via approved transfer agreements (e.g., the Western Deans' Agreement).

*Students may only take SOCW 604-3 Directed Readings course once for 3 credits.

MSW Foundation Year

For those with baccalaureate degrees in related areas and two years of full-time previous human service experience, the MSW normally consists of 66 credit hours (two years) of study. The foundation year consists of six 600-level courses, two 600-level social work electives, plus SOCW 632-9 (MSW Practicum I).

The 600 level courses are:

SOCW 630-3	Communication Skills
SOCW 631-3	Critical Social Work Practice
SOCW 632-9	MSW Practicum I
SOCW 633-3	Critical Social Policy
SOCW 634-3	Social Work Research/Policy/Practice
SOCW 635-3	Social Work Philosophy and Ethics
SOCW 637-3	Advanced Practice

MSW students in their Foundation Year must successfully complete SOCW 634-3 prior to registration in SOCW 609 and HHSC 703.

Indigenous Child and Youth Mental Health Graduate Certificate

The Certificate is designed for students who seek to practice in the area of Indigenous child and youth mental health in northern and remote communities, with a focus on working with children and youth who are experiencing significant mental health issues or who are at high risk. The certificate consists of 18 credit hours of 600-level coursework.

Admission

The Indigenous Child and Youth Mental Health Graduate Certificate program is open to Bachelor of Social Work and Bachelor of Child and Youth Care graduates. Those with related Bachelor-level degrees may also be eligible to apply, subject to the approval of the Chair of the School of Social Work. Those with a Master of Social Work or related Master's-level degree are also eligible to apply.

Graduate students in Social Work and other disciplines may take individual certificate courses as electives subject to approval of the Chair of the School of Social Work. Students wishing to audit coursework in the Certificate program may also do so subject to the approval of the Chair of the School of Social Work and to UNBC admitting and auditing regulations and policies set out in the Graduate Academic Calendar. Courses taken for audit only do not earn academic credit. Note: Students are required to undergo a criminal records search prior to being admitted as set out in the regulations and policies of the graduate academic calendar.

Admission into the Certificate program is limited and requires the recommendation of the Chair of the School of Social Work.

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.

Social Work

Qualification for Certificate

To fulfill the requirements of graduation, the student must:

- attain a minimum Cumulative GPA of 2.67 (B-) on courses for credit towards the Certificate; and
- complete all course requirements for the Certificate.

Required Courses

SOCW 670-3	Indigenous Peoples in Canada: Past/Present/Future
SOCW 671-3	Reflections on Practice: Indigenous Child/Youth Mental Health
SOCW 672-3	Social Work/Counselling Skills with Indigenous Children/Youth
SOCW 673-3	Mental Illness and Addictions Among Indigenous Children/Youth
SOCW 674-3	Crisis Work With Indigenous Children/Youth: Restoring Balance
SOCW 675-3	Community-based Prevention with Indigenous Peoples: Creating Balance

Division of Medical Sciences

The Division of Medical Sciences is an academic administrative unit that consists of the UBC MD Undergraduate Program (Northern Medical Program), the distributed UBC Health Professions Degree Programs, and the UBC/UNBC joint Health Professions Degree Programs. The Division of Medical Sciences promotes scholarship and innovation in research and medical education to address societal health needs, specifically in northern and rural communities. It is affiliated with the Faculty of Human and Health Sciences for the purposes of professional academic association and collaboration.

UBC Master of Physical Therapy-North (MPT-N)

The UBC Master of Physical Therapy Program (MPT) is the only fully distributed, entry-to-practice Physical Therapy program in British Columbia. The MPT Program offers students the opportunity to study at one of two locations: UBC's Point Grey campus or at UNBC's Prince George campus.

The MPT-N allows students to complete their academic and clinical learning with a focus on rural and remote communities.

The MPT-N is delivered in partnership with UNBC. This fully distributed model of learning uses technology that allows instructors and students to interact in real-time at multiple locations. Clinical skills assistants are present in labs at both campuses to facilitate learning and clinical skills development.

Clinical Learning

Students experience a wide variety of clinical settings in both public and private sectors with potential to participate in innovative projects and novel clinical experiences. Clinical learning for students takes place anywhere within the province; however, there is a focus on clinical sites within the Northern Health Authority, or at sites across the province that are designated as rural. Rural sites are typically small towns at considerable distance from urban centres. One important goal of the MPT-N is to graduate Physical Therapists who are committed to enhancing rehabilitation services in northern and rural areas. The actual location of clinical learning sites will vary each year.

Affiliate Status and Access to UNBC Student Services

UNBC offers an array of student services designed to foster student success. While academic registrations for all MPT-N students are at UBC, MPT-N students are registered as "affiliate students" at UNBC, enabling them to take advantage of all that UNBC has to offer. Please consult the MPT-N office for a complete and current list.

Academic and Non-Academic Policies, Procedures and Regulations

MPT-N students are subject to the UBC Faculty of Medicine and Department of Physical Therapy's policies, procedures and regulations. For more information, please visit <https://entrada.med.ubc.ca/community/policiesandforms>.

While studying at the UNBC campus, MPT-N students are also subject to UNBC's non-academic related policies and procedures. For more information, please visit <https://www.unbc.ca/policy>.

How to Apply

Admission to the MPT-N is done through the UBC Graduate School Online Admission and Application System. For more information, please visit: <https://www.grad.ubc.ca/prospective-students/applicationadmission/apply-online>.

Course Descriptions

Course Prefixes Listed Alphabetically

ANTH	Anthropology
BCMB	Biochemistry and Molecular Biology
BIOL	Biology
CHEM	Chemistry
COMM	Commerce/Business Administration
CPSC	Computer Science
DISM	Disability Management
ECON	Economics
EDUC	Education
ENGL	English
ENGR	Engineering
ENPL	Environmental Planning
ENSC	Environmental Science
ENVS	Environmental and Sustainability Studies
FNST	First Nations Studies
FSTY	Forestry
GEOG	Geography
GNDR	Gender Studies
HHSC	Health Sciences
HIST	History
IENG	Integrated Engineering
IDIS	Interdisciplinary Studies
INTX	International Exchange
INTS	International Studies
MATH	Mathematics
MCPM	Mathematical, Computer, Physical, and Molecular Sciences
NRES	Natural Resources and Environmental Studies
NREM	Natural Resources Management
NURS	Nursing
ORTM	Outdoor Recreation and Tourism Management
PHYS	Physics
POLS	Political Science
PSYC	Psychology
SOCW	Social Work
STAT	Statistics
VRES	Visiting Research Student

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 successfully completed prior to the student taking a 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.

Course Offerings

Not all courses are offered every year. Check the UNBC Website at www.unbc.ca for a list of the courses being offered in each semester.

Course Descriptions

The explanation below will help clarify the terms found in the course descriptions.

BIOL 601-3 Conservation Biology Ecological and genetic considerations for the maintenance of biological diversity and the practical applications to the management of natural resources.

Course Number — indicates discipline and level of study (600-700 master's level; 800 for doctoral and post-doctoral)

Credit Hours — Credit hours are assigned to each course; most courses are 3 credit hours.

Courses with Variable Credits — 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 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

Anthropology (ANTH)

ANTH 600-3 Advanced Anthropological Theory This course surveys and critiques selected contemporary approaches to cultural and social theory.

Prerequisites: Permission of the instructor

Precluded: ANTH 400-3

ANTH 601-3 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: Permission of the instructor

Precluded: ANTH 401-3

ANTH 604-3 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: Permission of the instructor

Precluded: ANTH 404-3

ANTH 605-3 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: Permission of the instructor

Precluded: ANTH 405-3

ANTH 606-3 Feminist Perspectives in Anthropology This course surveys and critiques selected theoretical approaches and ethnographies to examine key areas of interest and debate in the field of feminist anthropology. This course draws from the political ideology in feminism concerned with critical examination of gender relations and cross-cultural anthropological study.

Prerequisites: Permission of the instructor

Precluded: ANTH 406-3

ANTH 607-3 British Columbia Ethnography This course is a comparative critique of contemporary ethnographic research of selected cultures or regions.

Prerequisites: Permission of the instructor

Precluded: ANTH 407-3

ANTH 609-3 Advanced British Columbia Archaeology This course is a problem-based seminar in which selected issues are examined from several points of view.

Prerequisites: Permission of the instructor

Precluded: ANTH 409-3

ANTH 610-3 Theory of Nation and State A critical examination of theories of ethnicity, nationalism and statehood from an anthropological perspective.

Prerequisites: Permission of the instructor

Precluded: ANTH 410-3

ANTH 611-3 Biological Anthropology This course is a problem-oriented and project-based seminar examining a selected topic, or topics, in biological anthropology. Credit is available for both ANTH 411 (3-6) and ANTH 611-3, provided the topic is substantially different between offerings.

Prerequisites: Permission of the instructor

ANTH 613-3 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: Permission of the instructor

Precluded: ANTH 413-3

ANTH 614-3 Religion, Ideology, and Belief Systems This course provides a review of anthropological approaches to religion, ideology and belief systems using comparative examples from several cultures.

Prerequisites: Permission of the instructor

Precluded: ANTH 414-3

ANTH 616-6 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 617-6 and ANTH 618-3

Precluded: ANTH 416-6

ANTH 617-6 Excavation and Field Interpretation in Archaeology 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 616-6 and ANTH 618-3

Precluded: ANTH 417-6

Course Descriptions: ANTH, BCMB

ANTH 618-3 Archaeology and First Nations 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.

Prerequisites: Permission of the instructor

Co-requisites: ANTH 616-6 and ANTH 617-6

Precluded: ANTH 418-6

ANTH 620-3 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: Permission of the instructor

Precluded: ANTH 420-3

ANTH 621-(3-6) Ethnographic Field Methods This course is a project-based seminar in which students 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 emphasizes the actualization of conventional ethnographic methods and procedures in a field setting. Students are 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. Credit may be available for ANTH 421-(3-6) and ANTH 621-(3-6) if the subject matter and course location differ substantially.

Prerequisites: Permission of the instructor

ANTH 622-(3-6) Ethnographic Research Project This is a project-based course in which students 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. Credit may be available for ANTH 422-(3-6) and ANTH 622-(3-6) if the subject matter and course location differ substantially.

Prerequisites: Permission of the instructor

ANTH 623-3 Urban Anthropology 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: Permission of the instructor

Precluded: ANTH 423-3

ANTH 630-3 Stone Tools in Archaeology Stone tools are the most ubiquitous type of artifact 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 focus on analytical procedures, and in addition students are expected to complete assigned readings and participate in discussions.

Prerequisites: Permission of the instructor

Precluded: ANTH 430-3

ANTH 651-3 Traditional Use Studies This course is an advanced seminar on traditional use studies, their use, application, and development. The seminar examines the origins and development of this field, reviews case studies and recent applications, and analyzes contemporary policies.

Prerequisites: Permission of instructor

Precluded: ANTH 451-3, FNST 451-3, FNST 651-3

ANTH 698-3 Special Topics in Anthropology Credit available for both ANTH 498-3 and ANTH 698-3 provided topic differs substantively between offerings.

Prerequisites: Permission of the instructor

Precluded: ANTH 498-3

ANTH 699-3 Independent Study Credit available for both ANTH 499-3 and ANTH 699-3 provided topic differs substantively between offerings.

Prerequisites: Permission of the instructor

Biochemistry and Molecular Biology (BCMB)

BCMB 601-3 Basic Science of Oncology This is a lecture-based course designed to provide insight into our basic understanding of 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 in controlling gene expression.

Prerequisites: Permission of Instructor

Precluded: BCMB 401-3, CHEM 405-3, CHEM 605-3

BCMB 602-3 Macromolecular Structure This is a lecture-based course designed to provide students 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 the techniques and technical considerations. Students also learn how to judge the quality of data.

Prerequisites: Permission of Instructor

Precluded: BCMB 402-3, CHEM 405-3, CHEM 605-3

BCMB 603-3 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 applications of RNA molecules.

Prerequisites: Permission of Instructor

Precluded: BCMB 403-3, CHEM 405-3, CHEM 605-3

BCMB 605-3 Topics in Biochemistry and Molecular Biology This course considers 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 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: Permission of Instructor

BCMB 609-3 Enzymology This lecture-based course emphasizes the importance and role of enzymes in biochemistry and molecular biology. Topics include kinetic analysis, mechanisms of enzyme action, regulation of enzyme activity, and clinical aspects of enzymology.

Prerequisites: Permission of Instructor

Precluded: BCMB 409-3, CHEM 409-3

BCMB 701-3 Cell Biology Theory and Techniques This course focuses on the most advanced topics in cell biology. Students are given the opportunity to learn both the theory and practical aspects of various techniques used in cell biology, including fluorescence microscopy. Students develop relevant expertise in cell biology methods as part of the course requirement.

Prerequisites: Permission of instructor

BCMB 702-3 Chemical Biology Theory and Techniques This course focuses on a new discipline, spanning the fields of chemistry and biology, that forms the basis of current pharmaceutical research. Chemical biology uses the techniques and tools of chemistry to study and manipulate biological systems, often using small molecules produced synthetically or derived from natural sources. Both *in vitro* and *in vivo* systems that are probed with small molecules are covered in this course. Emphasis is placed on the theoretical and experimental strategies used to design or discover molecules with useful properties, including biochemical and cell-based screens.

Prerequisites: Permission of instructor

BCMB 703-3 Molecular Biology Theory and Techniques This course focuses on the most advanced topics in molecular biology. Emphasis is placed on the development of expertise in the relevant molecular biology techniques used to study DNA, RNA, and proteins.

Prerequisites: Permission of instructor

BCMB 704-1.5 Graduate Seminar Students investigate and present ideas and results pertaining to current research in Biochemistry and Molecular Biology. The offerings may include presentations of current literature, research methodology, and topics related to students' own research or project work. This is a PASS/FAIL course.

Prerequisites: Permission of instructor

BCMB 705-3 Advanced Topics in Biochemistry and Molecular Biology This course focuses on selected advanced topics in biochemistry and molecular biology.

Prerequisites: Permission of instructor

BCMB 706-3 Bioinformatics Tools This course focuses on the use of bioinformatics tools in biochemistry and molecular biology research. Students are given the opportunity to learn the most widely used as well as more advanced bioinformatics tools to study bio-molecules.

Prerequisites: Permission of instructor

BCMB 790-3 Special Topics This course focuses on selected special topics in advanced biochemistry, molecular biology and/or cell biology.

Prerequisites: Permission of instructor

Biology (BIOL)

BIOL 601-3 Conservation Biology Ecological and genetic considerations for the maintenance of biological diversity and the practical applications to the management of natural resources.

Precluded: BIOL 411-3

BIOL 602-3 Fisheries Management Management of freshwater and anadromous fish of British Columbia.

Precluded: BIOL 414-3

BIOL 603-3 Population and Community Ecology Structure and dynamics of populations; theoretical and applied aspects of population and community ecology.

Precluded: BIOL 410-3

BIOL 604-3 Wildlife Ecology The general ecology and biology of wildlife species, including physiology, behaviour, nutrition and endocrinology.

Precluded: BIOL 412-3

BIOL 605-3 Wildlife Management Management criteria for reptiles, amphibians, birds and mammals. Emphasis on the socio-economic aspects of management. Communication processes are addressed.

Precluded: BIOL 413-3

BIOL 606-3 Fish Ecology The general life history, ecology, zoogeography and habitats of freshwater, anadromous and marine fishes.

Precluded: BIOL 406-3

Course Descriptions: BIOL, CHEM

BIOL 609-3 Conservation of Aquatic Ecosystems Aquatic ecosystems face many challenges requiring diverse conservation approaches. This course introduces students to the structure and functioning of aquatic ecosystems and exposes them to the myriad of conservation challenges being faced by these systems. The course presents common approaches used to address conservation issues in aquatic ecosystems and uses a series of case studies to illustrate successes and failures.

Prerequisites: BIOL 201-3

Precluded: BIOL 409-3

BIOL 611-3 Insects, Fungi and Society The historical, social and economic importance of insects and fungi to human society, including underlying biological and ecological principles.

Precluded: BIOL 421-3

BIOL 620-3 Animal Behaviour Adaptive significance and evolutionary basis of behaviour patterns exhibited by the major animal phyla.

Precluded: BIOL 420-3

BIOL 623-3 Molecular Evolution and Ecology A lecture and laboratory based course that 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.

Precluded: BIOL 423-3, BIOL 709-3

BIOL 624-3 Plant Ecology Principles of ecology as they relate to plants. Structure, classification and analysis techniques, and the dynamic behaviour of plant communities.

Precluded: BIOL 404-3

BIOL 625-3 Applied Genetics and Biotechnology Familiarization with advanced genetic laboratory techniques and processes. Lectures will cover applications of genetic techniques and biotechnology as well as ethics issues regarding the use of these technologies. Specific topics will include: animal forensics, recombinant and transgenic theory, quantitative/molecular genetics, biotechnology and molecular ecology.

Prerequisites: Permission of instructor

Precluded: BIOL 425-3

BIOL 632-3 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.

Precluded: BIOL 402-3

See NRES course listing for additional 700-level Biology courses.

Chemistry (CHEM)

CHEM 602-3 Topics in Organic Chemistry Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: Permission of instructor

CHEM 604-3 Topics in Physical Chemistry Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: Permission of instructor

CHEM 605-3 Topics in Biochemistry Credit may be granted for both 400 and 600 level offerings of Topics in Chemistry courses, provided the content of the independent offerings of the courses is sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: Permission of instructor

CHEM 610-3 Topics in Analytical Chemistry 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, provided the content of the independent offerings of the courses are sufficiently different (as determined by the Program Chair or Dean).

Prerequisites: CHEM 310-3

Precluded: CHEM 410-3

CHEM 699-(3-6) Independent Study Concentration on particular topic(s) agreed upon by the students and a member of the Chemistry faculty. 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 Program Chair

CHEM 703-3 Advanced Topics in Inorganic Chemistry

Selected advanced topics in inorganic chemistry.

Prerequisites: Permission of instructor

CHEM 710-3 Advanced Topics in Analytical Chemistry

Selected advanced topics in analytical chemistry.

Prerequisites: Permission of instructor

CHEM 714-1.5 Graduate Seminar Students investigate and present ideas and results pertaining to current research in Chemistry. The offerings may include presentations of current literature, research methodology, and topics related to students' own research or project work. This is a PASS/FAIL course.

CHEM 790-3 Special Topics Selected special topics in advanced chemistry.

Prerequisites: Permission of instructor

Commerce (COMM)

COMM 603-3 Business and Corporate Strategy The goal of the first module of this course is to introduce students to the strategy formulation process and to the pursuit of competitive advantage in the single market or industry context. The second section of this course builds on the strategic planning concepts introduced in the Business Strategy module. At the corporate level, firms ranging from small to large in size operate in multiple markets and/or industries. The purpose of this module is to analyze how various corporate strategy approaches can create a whole that is greater than the sum of the parts.

COMM 610-3 Accounting Using financial information for decisions and control is an important skill for managers. This course explores selected topics within the realms of financial and management accounting using a combination of lectures and case studies. More specifically, the financial accounting segment focuses on the structure and interpretation of financial accounts prepared primarily for external users. Management accounting focuses on the internal users and includes such topics as budgeting, cost-volume-profit analysis, activity-based costing, planning and control, the balanced scorecard, relevant costs and variable costing versus full-absorption costing.

COMM 618-3 Accounting Research 3 This course reviews and critiques research methods, analysis, and strategies within a specialized area of accounting drawing upon faculty expertise. The course is delivered by individual faculty members in the accounting area on a revolving basis drawing on their active program of accounting research.

Precluded: COMM 418-3

COMM 620-3 Corporate Finance This course establishes the theory and practice foundations of financial management. The central concerns of the financial manager, namely capital budgeting, capital structure, working capital management and financial planning are studied extensively using quantitative and qualitative inquiry. These concerns of the financial manager are applicable not only to corporate settings but more broadly to not-for-profit and governmental organizations.

COMM 626-3 Finance Research 1 This course reviews and critiques research methods, analysis, and strategies within a specialized area of finance drawing upon faculty expertise. The course is delivered by individual faculty members in the finance area on a revolving basis drawing on their active program of finance research.

Precluded: COMM 426-3

COMM 627-3 Finance Research 2 This course reviews and critiques research methods, analysis, and strategies within a specialized area of finance drawing upon faculty expertise. The course is delivered by individual faculty members in the finance area on a revolving basis drawing on their active program of finance research.

Precluded: COMM 427-3

COMM 628-3 Finance Research 3 This course reviews and critiques research methods, analysis, and strategies within a specialized area of finance drawing upon faculty expertise. The course is delivered by individual faculty members in the finance area on a revolving basis drawing on their active program of finance research.

Precluded: COMM 428-3

COMM 632-3 Organizational Behaviour The ability to successfully manage people is a critical skill for managers who want to create and manage high-performing organizations. This course focuses on helping students develop people management skills and the knowledge and skills needed to transform the organization. There is an emphasis on leadership as it relates to motivating people, building effective teams and interpersonal relations, managing change, creating learning organizations and developing the organization.

Precluded: COMM 630-3

COMM 637-3 Research in Human Resources Management/ Organization Behaviour 1 This course reviews and critiques research methods, analysis, and strategies within a specialized area of human resources management and organization behaviour drawing upon faculty expertise. The course is delivered by individual faculty members on a revolving basis, drawing on their active program of research.

COMM 638-3 Research in Human Resources Management/ Organization Behaviour 2 This course reviews and critiques research methods, analysis, and strategies within a specialized area of human resources management and organization behaviour drawing upon faculty expertise. The course is delivered by individual faculty members on a revolving basis, drawing on their active program of research.

Precluded: COMM 438-3

COMM 639-3 Research in Human Resources Management/ Organization Behaviour 3 This course reviews and critiques research methods, analysis, and strategies within a specialized area of human resources management and organization behaviour drawing upon faculty expertise. The course is delivered by individual faculty members on a revolving basis, drawing on their active program of research.

COMM 640-3 Marketing This course focuses on developing and executing effective marketing strategies and plans. Students develop an understanding of major marketing concepts and their applications. These include developing a customer-focus organization, identifying marketing opportunities, forecasting demand, product/service development, buyer behaviour, market segmentation, targeting, pricing, communication and distribution.

COMM 646-3 Marketing Research 1 This course reviews and critiques research methods, analysis, and strategies within a specialized area of marketing drawing upon faculty expertise. The course is delivered by individual faculty members in the marketing area on a revolving basis drawing on their active program of marketing research.

Precluded: COMM 446-3

Course Descriptions: COMM

COMM 647-3 Marketing Research 2 This course reviews and critiques research methods, analysis, and strategies within a specialized area of marketing drawing upon faculty expertise. The course is delivered by individual faculty members in the marketing area on a revolving basis drawing on their active program of marketing research.

Precluded: COMM 447-3

COMM 648-3 Marketing Research 3 This course reviews and critiques research methods, analysis, and strategies within a specialized area of marketing drawing upon faculty expertise. The course is delivered by individual faculty members in the marketing area on a revolving basis drawing on their active program of marketing research.

Precluded: COMM 448-3

COMM 650-3 Operations Management This course helps students to understand the nature of problems and to find solutions in manufacturing and service operations conducted in profit and not-for-profit organizations. It includes the application of quantitative tools and techniques of analysis for making managerial decisions about operations. It covers topics such as; productivity and its measurement in organizations, operations strategy, decision making, forecasting, product and service design, design of operation systems, management of quality, production planning and control of operations, project management, e-commerce, lean and just-in-time systems. The use of case studies, projects, and class presentations are emphasized to promote interaction among individuals and teams.

COMM 652-3 Business Analytics This course provides students with the opportunity to learn about the basics of business analytics, specifically, how to extract information from large amounts of data in order to perform business functions and make business decisions. Topics include techniques for data sourcing, data cleaning, qualitative and quantitative analysis, and data visualization. These techniques are also applied to specific business areas such as marketing, accounting and finance.

COMM 656-3 Research in Operations Management/International Business 1 This course reviews and critiques research methods, analysis, and strategies within a specialized area of operations management and international business drawing upon faculty expertise. The course is delivered by individual faculty members on a revolving basis, drawing on their active program of research.

Precluded: COMM 456-3

COMM 657-3 Research in Operations Management/International Business 2 This course reviews and critiques research methods, analysis, and strategies within a specialized area of operations management and international business drawing upon faculty expertise. The course is delivered by individual faculty members on a revolving basis, drawing on their active program of research.

Precluded: COMM 457-3

COMM 658-3 Research in Operations Management/International Business 3 This course reviews and critiques research methods, analysis, and strategies within a specialized area of operations management and international business drawing upon faculty expertise. The course is delivered by individual faculty members on a revolving basis, drawing on their active program of research.

Precluded: COMM 458-3

COMM 662-3 Research Methodology This course emphasizes the development and implementation of the quantitative and qualitative research designs most frequently used in applied and field settings, including case studies, archival research, experimental and quasi-experimental designs, survey research, and observational research. The topic of research ethics is also covered in this course.

COMM 690-3 Canada's Asia-Pacific Gateway This intensive seminar course explores political, economic and managerial issues that are particularly important in British Columbia as the business customer base shifts to Asia. Guest speakers, and individual and group research, complement course readings and lecture content.

COMM 698-3 Special Topics in Business Administration This course seeks to enhance and broaden the analytical and research skills of students by providing curriculum in special areas of research in management (like behavioural research and analysis, mathematical finance, project management, quantitative methods in business) based on the research agenda of faculty and emerging areas of research.

COMM 701-3 Strategy Implementation This course is designed to advance students' understanding of how to turn strategic thinking into decisions, actions and the attainment of strategic objectives. Strategic plans often fail to achieve their potential due to implementation problems. The goal of this course is to assist students to integrate learning and experience in order to avoid these pitfalls. This integrative course assumes a working familiarity with all major functional areas, as well as a foundation in strategic analysis and strategy formulation.

Prerequisites: COMM 603-3 or permission of the instructor

COMM 703-3 International Business The goal of this course is to provide a framework for analyzing and managing key international business issues. Students gain an understanding of the role played by the international manager in balancing responsiveness to local conditions against the challenges of planning and integrating global operations.

COMM 735-3 Law, Governance and Ethics Managers require a fundamental understanding of the network of legal and ethical responsibilities that connect stakeholders with organizations. The philosophy and principles of law, corporate governance and ethics are discussed, with class investigation of case examples used to study selected topics within each field of study.

COMM 736-3 Human Resource Management and Industrial Relations This course has a dual emphasis on human resources management and industrial relations. In the area of human resources management, students learn how to develop human resource strategies, and how to manage compensation, performance evaluation and diversity. In the industrial relations area, students learn about the Canadian industrial relations system, the legal environment and collective bargaining with an emphasis on the negotiation process.

COMM 737-3 Leadership Practice and Development This course helps students to shape and develop their leadership practices, covering topics such as humility, servant leadership, authentic leadership, and cultural intelligence. Students are taught about e-leadership and how it influences followers' performance. In this course, strategic leadership skills are linked with the practical demands of current economies.

COMM 751-3 Project Management The course content includes project life cycle, project planning, budgeting, resource loading, resource leveling and planning, cost estimation and crashing. It also includes project evaluation, auditing, communication, and termination; and includes the use of basic statistical tools and project management related software for project management related exercises and for practical case studies.

Prerequisite: COMM 650-3

COMM 755-3 Management of Technology This course helps students to understand the nature of technology and innovations, effect of technology on businesses and business processes, development of new products and services for businesses by making use of innovations and technology. It includes topics such as; diffusion of products and process innovations in industry, business and technology, new product development and its introduction in the market, management of technological change process in organizations, management of research and development, technology forecasting, technology transfer, technology strategy and planning for growth and sustainable development. Case studies, seminars, class presentations are emphasized to promote interaction among participants.

COMM 760-3 Seminar in Business Administration This course includes a basic introduction to scholarship in business and reviews the current state of theory, research, and practice across the range of topics in business administration. Faculty members within specialized areas of business administration (accounting, finance, human resources management/organizational behaviour, marketing, operations management/international business) present 2-3 week modules in their areas of specialization.

COMM 762-(3,6) Independent Research in Business Administration Working individually or in a small group, students conduct research under the supervision of a faculty member within a specialized area of business administration. Students normally complete six credit hours of this course.

Prerequisites: COMM 662 and COMM 760, or permission of the instructor

COMM 763-12 Master's Thesis Designed and executed by the student, the MSc thesis involves an original empirical investigation in the chosen specialized area of business administration.

COMM 798-(3-6) Independent Study Under special circumstances a program of independent study may be agreed to with a member of faculty. This course may be repeated once for credit with the permission of the Program Chair

Prerequisites: Permission of the Program Chair

COMM 799-6 MBA Project The capstone of the MBA program, the MBA project demonstrates the student's ability to undertake practical business research with limited guidance from a member of faculty. Students normally complete their research during the second year of the program.

Computer Science (CPSC)

CPSC 600-3 Software Engineering Project This course provides students, working in groups, with an opportunity to apply the principles of software engineering, learned in previous courses, in a controlled and yet realistic project environment. They gain a significant integral project experience involving various project phases, such as requirements elicitation, system design, and prototyping, as well as team organization, human factors, professionalism, and project management.

Prerequisites: Permission of the instructor

Precluded: CPSC 301-3, CPSC 400-3

CPSC 624-3 Advanced Database Systems This course introduces advanced concepts in database design and applications. Topics 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: Permission of the instructor

Precluded: CPSC 424-3

CPSC 625-3 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: Permission of the instructor

Precluded: CPSC 325-3, CPSC 425-3

Course Descriptions: CPSC

CPSC 641-3 Distributed Systems This course covers the fundamental principles and paradigms underlying the design of distributed computing systems. The 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: Permission of the instructor

Precluded: CPSC 441-3

CPSC 642-3 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: Permission of instructor

Precluded: CPSC 442-3

CPSC 644-3 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: Permission of the instructor

Precluded: CPSC 444-3

CPSC 650-3 Bioinformatics This course introduces computational techniques for solving biological problems and presents an overview of the tools and 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: Permission of instructor

Precluded: CPSC 450-3

CPSC 672-3 Knowledge Based Systems This course introduces students to Expert Systems. The two major topics addressed are Rule-based 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, including Bayesian probabilities, certainty factors, non-monotonic logics and reasoning with beliefs, are covered. A Fuzzy Logic system is implemented and an application is developed and tested.

Prerequisites: Permission of the instructor

Precluded: CPSC 472-3

CPSC 673-3 Introduction to Data Mining This course introduces algorithms and paradigms that allow computers to discover previously hidden patterns in databases or datasets. Main topics include discovery of frequent patterns, analysis of different types of data (static, dynamic, sequential, uncertain, etc.) clustering and classification. Other topics may include data visualization, social network mining, real-life applications, and parallel/distributed data mining. Students work on assignments, term tests and an individual course project.

Precluded: CPSC 473-3

CPSC 675-3 Multiagent Systems An introduction to the theoretical and practical aspects of intelligent agents and multiagent systems, this course is open to graduate students in different areas and fosters creative multidisciplinary 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: Permission of the instructor

Precluded: CPSC 475-3

CPSC 682-3 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 CPSC 281-3.

Prerequisites: CPSC 281-3 and CPSC 340-3, or permission of the instructor

Precluded: CPSC 482-3

CPSC 690-3 Computing Project I This course consists of a large computing project undertaken by the student or by teams of students. Projects will be geared to industrial or research needs and designed to give the senior students first-hand experience in applying their knowledge and skills to the design and implementation of medium to large software systems. Students will employ standard software engineering practices. Regular project team meetings will be held to review project milestones.

Prerequisites: CPSC 301-3 or permission of the instructor

CPSC 699-3 Special Topics The topics for this course vary, depending on student interest and faculty availability. The course may be repeated any number of times, provided all topics are distinct from one another.

Prerequisites: Permission of the instructor
Precluded: CPSC 499-3 on the same topic

CPSC 704-1.5 Graduate Seminar in Computer Science The course comprises weekly seminar sessions. Students will investigate and present ideas and results pertaining to current computer science research. The offerings may include presentations of current literature, research methodology, and topics related to students' own research or project work. Students will participate in discussions and critique of the work presented. MSc students are required to attend and participate in all seminar sessions to obtain credit for the course. This is a PASS/FAIL course. (All MSc students must register in a seminar course twice during their program of studies. It is expected that all MSc students will attend the seminar each semester they are available.)

CPSC 706-3 Topics in Computer Science Research and Methodology This course is designed to expose graduate students to research methods, principles and design techniques in computer science, which may include evolution of fundamental ideas in computer science, theoretical foundations, formal techniques in the areas of system specification, design, verification, validation and performance analysis. The course aims to offer methods and principles widely applicable in computer science. Specific applications studied will vary.

Prerequisites: Permission of the instructor

CPSC 720-3 - Advanced Programming Languages Topics for this course may include advanced study of general programming language design concepts, formal reasoning about programs and languages, pragmatic evaluation of language properties, and case studies of specific languages. The course may be used to communicate programming language theory and practice specific to students' project or thesis research needs.

CPSC 723-3 Transaction Processing and Concurrency Control This course provides an introduction to the key principles of transaction processing systems. It includes the architecture of transaction processing systems, including transactional communications paradigms, and mechanisms for recovering from transaction and system failures. Some of the commercial transaction processing systems, transactional aspects of database servers, messaging systems, Internet servers, and object-oriented systems, as well as each of their subsystems are also studied through various examples.

Prerequisites: CPSC 422-3 or equivalent or permission of the instructor

CPSC 740-3 Analysis and Modelling of Communication Networks This course aims to introduce techniques for analysing the performance of communication networks and systems. The techniques to be covered include different queuing models and the applications and limitations of these models for the analysis of communication networks, such as: introduction, probability, queuing analysis, M/M/1 and other models, Performance Modelling, Simple and complex Packet Switched Networks and other modelling techniques.

Prerequisites: CPSC 440-3 or CPSC 640-3 or equivalent or permission of the instructor

CPSC 741-3 Advanced Topics in Distributed Computing This course focuses on exploration of principles of distributed computing through a study of selected advanced topics of research interest to faculty and students.

Prerequisites: Permission of the instructor

CPSC 760-3 Modelling and Simulation This course covers fundamental modelling and simulation concepts and discrete-event systems in particular. The course introduces systems modelling and simulation concepts, basic probability distributions and random numbers, queuing models, and an overview of relevant object oriented concepts. The fundamental concepts and practical simulation techniques for modelling different types of systems are covered. An in-depth study of modelling elements, simulation protocols, and their relationships including verification and validation are discussed. Various distributed systems are introduced as case studies and a significant part of the course and hand-on experience is through simulation projects. Understanding of distributed systems and object oriented programming concepts and basic probability theory is required.

Prerequisites: Permission of the Instructor

CPSC 790-3 Graduate Seminar

CPSC 791-3 Advanced Special Topics I This course introduces selected advanced special topics in computer science. The content may vary.

CPSC 792-3 Advanced Special Topics II This course introduces selected advanced special topics in computer science. The content may vary.

Disability Management (DISM)

DISM 609-3 Professional Ethics in Health Care Management This course addresses the ethical practice of health care management. Students are exposed to ethical dilemmas inherent to our health care system and are provided with the skills and knowledge to resolve these dilemmas. Students become familiar with several health care professionals' codes of ethics and learn how to apply various ethical decision-making models.

Prerequisite: Graduate Standing

Course Descriptions: DISM, ECON

DISM 710-3 Foundations in Disability Management This course will provide a comprehensive overview of the principles and practices of disability management in the workplace. The course begins with an introduction to the interdisciplinary nature of return to work services and interventions, theoretical foundations of disability management and benchmark models or approaches used, and the typical issues and needs among persons challenged by return to work barriers. The application of management skills in resolving disability management problems will also be covered including traditional management skills in the areas of budgeting, human resources, service provision and problem-solving skills.

Precluded: HHSC 710-3

DISM 711-3 Disability Management: Legislation, Policy & Procedures This course will provide the skills and knowledge required to develop organizational policy and procedures that are based on societal values, legislation and regulation, collective bargaining agreements, and the specific organizational culture.

Precluded: HHSC 711-3

DISM 712-3 Disability Management Interventions The primary goal of disability management is to help workers with limitations and restrictions return to work at the optimum point in their rehabilitation and recovery. This course will cover the skills, knowledge and attitudes required for effective disability interventions. Additional topics covered include: working with the supervisor, the individual and the shop steward to develop, implement and monitor a successful transitional work plan.

Precluded: HHSC 712-3

DISM 720-3 Special Topics This course covers topics of special interest, which may vary from year to year.

DISM 794-6 Disability Management Major Paper The Major Paper (MP) option is for those students who have written a letter outlining their experience in the disability management field and obtained permission allowing them to prepare a Major Paper in place of a Practicum (6 credits). It is the aim of the MP to acquaint students with the practice of scholarship. Such acquaintance normally entails a critical treatment of relevant academic literature using theoretical or philosophical methods. If the student wishes to pursue empirical research, either quantitative or qualitative, the thesis option must be selected.

Prerequisites: Completion of all the Disability Management required courses

DISM 795-6 Disability Management Practicum Students participate in field-based learning activities for the purpose of pursuing and developing research/policy administration/practice skills within a related employment area. The duration of this component is equivalent to three months' full-time employment.

Precluded: HHSC 795-6

DISM 796-3 Disability Management Comprehensive Examination The comprehensive examination option of study requires the successful completion of a comprehensive examination that evaluates a candidate's knowledge of theory, research, and practice in their field of study.

Prerequisites: Completion of all coursework

DISM 798-(3-6) Directed Studies

Precluded: HHSC 798-(3-6)

DISM 799-9 Disability Management Thesis

Economics (ECON)

ECON 601-3 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.

Precluded: ECON 401-3 and ECON 701-3

ECON 604-3 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.

Precluded: ECON 404-3 and ECON 704-3

ECON 608-3 Managerial Economics This course examines the economic basis of managerial decision-making. The focus is on demand analysis, production and costs, and price determination in different market structures. Other topics covered include pricing strategies, decision-making under risk, and the economic rationale for business regulation. Case studies and events reported in the business press inform the course.

ECON 610-3 Health Economics 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.

Precluded: ECON 410-3

ECON 611-3 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.

Precluded: ECON 411-3

ECON 623-(3, 6) Economics Field Study 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: Graduate student standing and permission of the Chair

ECON 625-3 Trade and the Environment This course considers the relationship between different international trade regimes and environmental issues.

Precluded: ECON 425-3

ECON 635-3 Financial Economics and Quantitative Methods This course explores the theoretical and conceptual foundations of financial economics. The course also includes quantitative methods for testing some of the basic financial propositions in finance.

Prerequisites: Graduate student standing and permission of the Chair
Precluded: ECON 435-3

ECON 651-3 Microeconomic Theory and Applications This course provides an understanding of microeconomics at an advanced level. The emphasis is on understanding microeconomic theory and its applications to selected issues.

ECON 698-3 Special Topics in Economics

ECON 700-0.5 Graduate Colloquia Students attend colloquia on a range of research conducted on global issues. Students must register twice in this course. The course is offered during the September and January semesters. This is a PASS/FAIL course.

ECON 710-3 Macroeconomic Policy for Development This course provides a critical understanding of macroeconomic models used in International Monetary Fund stabilization programs. Structuralist and other heterodox approaches are also considered. Topics covered include exchange rate policies, inflation, interest rate policies and financial liberalization.

ECON 712-3 Applied Econometrics This course provides an introduction to econometric methods. Topics covered include simple and multiple regressions, hypothesis and diagnostic testing, and time series models. Students are expected to become familiar with one or more course-related software packages.

ECON 798-9 Economics Project The project is a policy and/or applied paper relevant to one or more developing countries. Proposals for projects and the projects themselves are evaluated by the supervisory committee. An oral defence is required.

ECON 799-12 Master's Thesis The MA thesis should pose and examine a significant development question in a way that demonstrates critical thinking, an understanding of the relevant literature, and the ability to conduct systematic research. In preparation for the thesis, a research proposal is to be drafted for approval by a supervisory committee. An oral defence of the thesis is required.

Education (EDUC)

EDUC 601-3 Educational Research Design and Methodology An introduction to the paradigms of educational inquiry, the formulation of research questions, the consideration of ethical issues, the principal types and methods of educational research, the preparation of research proposals, and the reporting of research results. Students will be encouraged and assisted to utilize this course to develop either a thesis or project proposal that will satisfy the research requirement of the MEd degree program.

EDUC 602-4 Quantitative Research Design and Data Analysis (Lecture/Lab) This course is an introduction to the descriptive and inferential univariate statistics commonly used to quantitatively analyze social sciences research data. Topics include graphing, central tendency and dispersion measures, standard scores, data cleaning, hypothesis testing, correlation, simple linear regression, nonparametric statistics, and an introduction to ANOVA, including factorial ANOVA, with multiple comparisons. Research methodology is integrated throughout the course. The student is given instruction in common word processing and spreadsheet programs for the purpose of statistical analysis and reporting.

Prerequisites or Co-requisites: EDUC 601-3

EDUC 603-4 Advanced Quantitative Data Analysis (Lecture/Lab) This course provides an examination of a variety of advanced (generally multivariate) methods of quantitatively analyzing social science research data. Selected topics include: introductory matrix algebra, a review and an extension of ANOVA techniques introduced in EDUC 602-4 including ANCOVA, MANOVA, and MANCOVA, multiple linear, and logistic regression, and factor analysis. Additional methodological and/or analytic topics are included in accord with the expressed research interests and needs of students. The student is given instruction in one or more common statistical programs.

Prerequisites: EDUC 602-4 or equivalent

EDUC 606-3 Leading for Change This course reviews contemporary management and organizational theory emphasizing the role that leaders can play in facilitating and managing change. Other areas of focus include developing a learning organization, organizational responsiveness, processes of organizational change and improvement, strategic planning, and program evaluation. By highlighting the accountability policy trends in BC and Canadian schools, this course emphasizes the links between theory and practice.

Course Descriptions: EDUC

EDUC 609-3 Aboriginal/Indigenous Learners: History, Culture, and Ways of Knowing This course explores the difficult history Aboriginal/Indigenous people have had with Western education. It also explores Indigenous ways of knowing, contemporary educational theory, and instructional practices in relation to the needs and resources of Aboriginal/Indigenous students in rural and urban northern communities. Students are encouraged to examine achievement data and to explore cultural assumptions around definitions of Aboriginal/Indigenous student success. Students will consider the cultural relevance of teaching resources, assessment tools, and school improvement interventions. Issues of Aboriginal/Indigenous access, retention, and participation in education systems are emphasized, along with the need for rebuilding trust among educational institutions and Aboriginal/Indigenous communities.

Precluded: EDUC 646-3

EDUC 610-4 Qualitative Analysis in Education (Lecture/Lab) This course provides an introduction to the conceptual underpinnings of qualitative research and to qualitative data analysis methods, including case study, discourse analysis, grounded theory, action research, phenomenology, narrative inquiry and ethnography. The course includes a lab in which students learn hand coding and analysis and are introduced to the use of qualitative analysis software.

Prerequisites or Co-requisites: EDUC 601-3

EDUC 611-3 Advanced Topics in Qualitative Research This course is an exploration of epistemological issues in qualitative research, including ethics, researcher role, reflexivity, voice, and interpretation. The course includes in-depth study and application of one or more of the qualitative approaches to analysis introduced in EDUC 610-4.

Prerequisites: EDUC 610-4 or equivalent

EDUC 613-3 Interpersonal Counselling Skills This course explores the theory and practice of interpersonal communication and helping skills in counselling. It provides opportunity within the classroom setting to practice and receive feedback on basic helping and communications skills.

Prerequisites: This course is restricted to MEd Counselling or DISM students, or by permission of the instructor

EDUC 615-3 The School Principalship This course explores the skills, knowledge and personal attributes central to effective school leadership in British Columbia. It emphasizes the legal and policy context for schools by examining school law (legal duties and responsibilities), collective bargaining and school finance; and it explores effective interpersonal and supervisory skills in the workplace. Examples from the field experiences of participants and the instructor permit opportunities for developing personal praxis.

EDUC 616-3 Policy and Politics in Public Education This course examines the politics of education at the local, provincial and national levels by considering the governance structures, patterns or trends in education and political influences on educational decision makers. Emphasis is placed on the policy process. Both the theory and practice of policy development are explored including agenda setting, stakeholder influence, bureaucratic systems, policy design, implementation and evaluation, and the principles and processes of inclusive decision making.

EDUC 617-3 Leading for Learning: Teacher Leadership and Principal This course provides an overview of the skills, knowledge, and personal attributes central to effective teacher leadership and principal leadership in schools in British Columbia. It features a current emphasis on distributed leadership and on various kinds of influence within schools that function as sustainable learning communities. The course explores collegial relationships as a background for instructional improvement and invites identification of personal leadership goals as well as plans for implementation.

Precluded: EDUC 615-3

EDUC 618-3 Family Counselling This course is an introduction to classic and postmodern theories of family counselling including Bowen, Structural, Strategic, and Experimental Family Therapies. Application of theory to practice is included.

Prerequisite: This course is restricted to MEd students or permission of the instructor

EDUC 619-3 Counselling for Aboriginal/Indigenous Peoples This course examines the place of counselling in the holistic context of Aboriginal/Indigenous approaches to health and healing. In particular, it examines the counselling processes that are inherent in traditional healing practices such as the sweat lodge, concentric circle, talking circle and vision quest.

EDUC 621-3 Classroom Assessment Practices In this course, we will examine the relationships between and purposes of classroom-based assessment and evaluation. We 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. The course includes a practical component so that students will explore effective assessment practices and how to interpret assessment results, as well as how to evaluate current trends in educational evaluation.

Prerequisites: None; elective course open to all graduate Education students. Graduate students outside of Education, non-degree graduate students, and upper level undergraduate students also may take the course, as per the admission guidelines in the graduate calendar.

EDUC 622-4 Psychoeducational Assessment This course provides an overview of individualized assessment, including formal standardized instruments, informal tests, and classroom-based tools and instruction on the administration and interpretation of Level B tests. There is also a field application involving the design, administration, and interpretation of an individual assessment for learning.

EDUC 626-3 Inclusive Education: Learning for All This course presents “inclusive education” as a transition toward the predominance of a “success for all” educational philosophy. Components of inclusion include but are not limited to integration of exceptional students and examination of achievement data for minority groups. Issues of quality and equity of educational opportunity for all genders, orientations, cultures, religions, and socioeconomic groups are also explored. Connections are made to current instructional concepts such as culturally relevant practice and differentiated instruction. Students are expected to apply course content to develop action inquiry projects designed to improve equity in their own professional settings.

Prerequisite: EDUC 535-3 and EDUC 635-3

EDUC 632-3 Language Development: Implications for Education An exploration of theories of language development across the lifespan, drawn from Linguistics, Psycholinguistics, Sociolinguistics, and Educational Psychology. Links between language development, and cognition, learning, and social development, and their educational implications will be addressed.

EDUC 633-3 Human Development: Implications for Education Contemporary theories of human development are examined along with their implications for teaching and counselling children, adolescents, and adults.

EDUC 634-3 Achievement Motivation Current theories of achievement motivation, grounded in practical classroom examples. Our examination will be research oriented, ranging from a micro level of analysis (e.g., individual case studies) to a macro level of analysis (e.g., school structures). A central issue is how teachers and counsellors can understand and foster students’ motivation for school learning.

EDUC 635-3 Educating Exceptional Students An examination of the nature and characteristics of exceptional students and a review of current theory and research concerned with accommodating their special needs in a variety of educational environments; for example, counselling or instructional environments.

EDUC 636-3 Language and Learning Disabilities In this course, we will review current theoretical and research literature on language-based learning disabilities, including disabilities of oral language, reading, and written expression, and their implications for students’ learning. Strategies for assessment, planning, teaching, and intervention for preschool, school-aged, and adult learners will be addressed.

EDUC 637-3 Interventions for Literacy Disorders This course provides an overview of diagnostic and remedial strategies for literacy disorders. Students are provided with an overview of individualised assessment, including informal tests, and classroom-based tools and instruction on remedial strategies specific to literacy errors and deficiencies. There is also a field application, in which students work in a supervised setting with one child exhibiting a literacy disorder, out of which a final report is produced.

EDUC 638-3 Mathematic Disorders and Remediation This course provides an overview of diagnostic and remedial strategies for mathematics. Students are provided with an overview of individualised assessment, including formal standardised instruments, informal tests, and classroom-based tools and instruction on remedial strategies specific to mathematics errors and deficiencies. There is also a field application, in the form of a brief mathematics clinic in which students work in a supervised setting with one remedial mathematics child, out of which a final report is produced.

EDUC 639-3 School-Based Teams, Consultants, and Families This course is an overview of the strategies, policies, and procedures related to school-based team meetings. Included is a review of the professional literature, a description of the roles and responsibilities of team members such as teachers, administrators, parents, students, and families, and an analysis of the techniques used in school-based team meetings.

EDUC 640-3 Focus on a Selected Disability This course examines a specific special need, with topics determined by the interests of students and the availability of faculty members to teach them. For example, it may focus in depth on educational aspects of a specific disability or range of disabilities, such as FASD, Autism Spectrum Disorder, hearing disability and deafness, or visual impairment. This course may be taken up to two times but with a different disability focus each time.

EDUC 642-3 Personal and Career Planning for Students with Special Needs This course is an evaluative survey of theories and practices employed to facilitate career decision making for students with special needs.

EDUC 651-3 Mathematics Education A critical examination of theory and research associated with current practices and emerging trends in curriculum development and instruction in mathematics. Students may elect to focus upon either the elementary or secondary level of the curriculum.

EDUC 653-3 Social Studies Education A critical examination of theory and research associated with current practices and emerging trends in curriculum development and instruction in social studies. Students may elect to focus upon either the elementary or secondary level of the curriculum.

Course Descriptions: EDUC

EDUC 655-3 Collaboration, Communication and Community: Leaders as Community Builders This course examines the need for collaboration and communication as tools for managing the social and cultural complex environment of schools and communities. Areas of focus include the principles of effective communication and inclusive decision making, the principles of diversity and inclusion, media and public relations, and the application of new technologies to promote dialogue.

EDUC 656-3 Instructional Leadership This course explores the principles and practices of designing effective curriculum and instructional systems, while also exploring the role of instructional leaders in creating a positive culture that enhances both teacher and student learning. The course is also useful to the future school principal interested in models of supervision and its relationship to instructional planning and implementation. Other topics include adult development, reflective practice and professional growth models.

EDUC 671-3 Reconciling Space and Practice: Ways of Knowing and Being This course explores the Aboriginal, Indigenous and First Nations curricula development, teaching practices, and methodology within the context of Canadian education and society. Based upon these various perspectives, students foster a personal and professional foundation for education and leadership. An essential part of this course is developing an awareness of the powerful, dynamic aspects of orality and the integration of orality within education and leadership.

EDUC 672-3 Reflective and Transformative Practices in Educational Contexts This course provides examinations of educational perspectives and practices that address conformity and adaptation to realities in today's world. Learners participate in reflections and dialogues to formulate transformative positions in the development of educational programs. The course integrates ideas, concepts and understandings of educational leadership in diverse contexts.

EDUC 673-3 Using Research to Inform Practice and Policy This course explores and discovers the role of literature and research in academic, professional and personal settings. Learners examine how literature serves to inform practice, policy and practice. Learners explore a variety of research approaches informing the work of Public Intellectuals and Thought Leaders. The course provides research approaches consistent with Indigenous and Intercultural research that inform issues, ethics and methods.

EDUC 674-3 Mental Health Disorders in Exceptionality Education This course provides an overview of four common mental health disorders in relation to Exceptionality Education. Students research and evaluate strategies to teach their students with mental health disorders and ways to interact confidently with colleagues, parents, and paraprofessionals about mental health issues.

EDUC 675-3 So You Want to Change the World This course examines the cultural, social, political and economic factors influencing systems and communities. Learners examine self as leader and consider frameworks, models, and theories of transformational leadership, leading for change, and compassionate disruption.

EDUC 676-3 Policy, Governance and Ethical Decision Making This course will investigate and analyze policy and regulations, governance procedures, and ethical decision-making processes that support systems. Coherence and policy alignment are essential for systems to be successful and effective and should be aligned to current beliefs and values.

EDUC 677-3 Decolonizing Education This course focuses on decolonizing systems and practice. How can Indigenous Worldviews and perspectives be visible and embedded in everything that we do? Learners develop an understanding of the colonial history in Canada and Canadian educational systems including but not exclusive to a critical examination of systems and policies. This course offers opportunities to see ways that leadership may shift the course of action for reconciliation.

EDUC 678-3 Leadership for Equity and Inclusion Equity and inequity are systemic. What does it mean to have an inclusive system and inclusive systemic leadership? How do leaders create a more equitable educational system by humanizing pedagogy and practices? This course explores how to know your peers, colleagues, and self. Learners examine understanding of one's biases and preferences while moving to a more heightened and adaptive multi-cultural lens by implementing the First Peoples Principles of Learning.

EDUC 679-3 Small is Beautiful: The Power of Small Small is a relative term. This course engages learners to imagine, realize, and recognize innovation in their local communities. Constructing and conceptualizing transformation within their workplace and community includes cultural, social, and economical components to bring about innovation in practice, in workplaces, and in collaboration with others from multiple learning networks.

EDUC 680-3 En cha huna: Living our Learning This course concludes the learning experiences of the students. Students identify a problem or situation within their professional environments that require significant change or transformation. Drawing from learnings and coursework collected in digital repositories, students explore ways in which to prepare, disseminate and share knowledge as Public Intellectuals and Thought Leaders to an audience identified as relevant to their people, place, and land. Course seminars critique various dissemination options based on desired impact, potential audience, ethical issues, and knowledge mobilization.

EDUC 690-3 Health and Human Sciences: Interdisciplinary Seminar An interdisciplinary analysis and discussion of topics of common interest to graduate students in the Faculty of Arts, Social and Health Sciences.

EDUC 692-3 Special Topics Topics to be determined by the special interests of students and the availability of faculty members to teach those topics. This course may be retaken any number of times, provided all topics are distinct.

EDUC 693-3 Directed Reading Independent study under the direction of a faculty member. This course provides an opportunity for students to study an educational topic relevant to their program if additional study is either desirable or necessary to correct possible deficiencies in their preparation for graduate study.

EDUC 711-3 Counselling Theory This course is an examination of the theoretical foundations of counselling. Topics reviewed include analytic, behavioural, cognitive, existential, person-centred, gestalt, feminist, and postmodern therapies.

EDUC 712-3 Counselling Practice This course is an integrative exploration of information on counselling skills, strategies, techniques, and client issues required for effective practice. It includes an overview of current versions of Brief Therapy (Solution-Focused), Narrative Therapy, and Cognitive Behavioural Therapy. Individual clinical supervision of video-recorded sessions is a major component of this course.

Prerequisite: EDUC 613-3. This course is restricted to MEd Counselling students

EDUC 714-3 Group Counselling Processes This course addresses the theory and practice of group counselling. Opportunities are provided to participate in and conduct group sessions.

EDUC 715-3 Career Counselling This course is an evaluative survey of the counselling theories and practices employed to facilitate career decision making in schools and community agency settings.

EDUC 716-3 Clinical Counselling This course is an examination of specific areas of clinical counselling such as behaviour disorders, mental subnormality, learning disabilities, mood disorders, anxiety disorders, and personality disorders.

EDUC 717-3 Ethics in Counselling This course examines the ethical and legal issues found in counselling practice with individuals, couples, families, and groups. It also presents an ethical decision-making process and model for application to counselling practice dilemmas. Students become familiar with counselling codes of ethics.

EDUC 719-6 Counselling Practicum This course includes a practicum placement in at least one school, agency or institutional setting; scheduled seminars; and individual supervision. Students are required to complete 150 hours of direct client contact time at their practicum.

Prerequisites: EDUC 613-3, EDUC 711-3, 712-3, and 714-3 and one Counselling elective course. This course is restricted to MEd Counselling students

EDUC 795-3 Research Seminar A seminar focused on supporting students' ongoing work on their theses or projects. In particular, the course will identify and explain the various tasks that are typically involved in the development of a thesis or project; for example, design, implementation, analysis, interpretation and writing. Cooperative problem solving will be employed to assist students to develop their

theses or project plans.

Prerequisites: EDUC 601-3 and 602-3 or equivalent

EDUC 796-3 Portfolio The portfolio route requires the successful completion of a professional portfolio that demonstrates a candidate's knowledge of education research, theory, and practice in his/her field of study (Special Education). This course enhances and reinforces a student's knowledge of educational research, theory, and practice as well as their interrelationship as evidenced by selected artifacts and accompanying rationales.

EDUC 797-3 Comprehensive Examination The comprehensive pattern of study requires the successful completion of a comprehensive examination that evaluates a candidate's knowledge of education theory and practice in his/her field of study (Counselling or Curriculum and Instruction). This program pattern is designed to enhance and reinforce a student's knowledge of both educational theory and practice as well as their interrelationship.

Prerequisites: successful completion of all other degree requirements

EDUC 798-6 MEd Project Students are asked to develop theoretically defensible innovations in educational practice. These may include innovative curricula, instructional strategies, or counselling practices. The efficacy of the innovations must be evaluated and the results reported as a part of a formal report of the project. The completed project report must be submitted to the student's supervisory committee for evaluation.

EDUC 799-9 MEd Thesis Students are asked to evaluate educational theory and practice, identify a significant question and implement a research strategy that addresses the question. The completed thesis must be submitted to the student's supervisory committee for evaluation.

English (ENGL)

Students wishing to take any 600-level graduate English courses as part of an interdisciplinary or other MA program should consult the Department of English Chair.

ENGL 600-3 Advanced Contemporary Theory This course offers 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.

ENGL 609-3 Advanced Studies in Film or Television This course offers advanced study in film or television.

ENGL 610-3 Advanced Studies in Women and Literature This course investigates 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.

Course Descriptions: ENGL

ENGL 620-3 Advanced Studies in Indigenous Literature Drawing on postcolonial and cultural theories, this course examines contemporary Indigenous literatures written in English.

ENGL 630-3 Advanced Studies in Canadian Literature This course examines multicultural and cross-cultural expressions in modern and contemporary Canadian literature. Authors studied may include Margaret Laurence, Hugh McLennan, Rohinton Mistry, Rudy Wiebe, Aritha van Herk, Joy Kogawa, Marlene Nourbese Philip.

ENGL 631-3 Advanced Studies in Northern BC Literature This course in Northern BC literature offers advanced study of authors such as Barry McKinnon, Eden Robinson, Brian Fawcett, George Stanley, Jacqueline Baldwin, and Ken Belford.

ENGL 640-3 Advanced Studies in Postcolonial Literature This course undertakes an investigation of the central issues of postcolonial literature, including postcolonial nationalism, colonial mimicry, imperial versus native languages, and the political and social responsibility of the writer.

ENGL 650-3 Advanced Studies in Comparative Literature This advanced course in Comparative Literature focuses on texts written in English or English translation. Special topics may include comparative studies of a genre, theme, period or region. Writing which crosses borders or the writing of specific cultural groups may also be included.

ENGL 660-3 Advanced Studies in Children's Literature This course offers advanced study in children's literature and culture.

ENGL 670-3 Advanced Creative Writing - Poetry This course offers advanced lectures and workshops in the craft of writing poetry.

ENGL 671-3 Advanced Creative Writing - Fiction and Creative Non-Fiction This course offers advanced lectures and workshops in the craft of writing fiction and/or creative non-fiction.

ENGL 680-3 Advanced Studies in Science Fiction This course offers advanced study of the structures and motifs of science fiction and fantasy.

ENGL 683-3 Advanced Studies in Romantic Literature This course investigates a particular aspect of Romantic Literature. The focus could be on the works of a specific author or school of authors, a literary genre, or a particular social or theoretical concern.

Prcluded: ENGL 483-3

ENGL 684-3 Advanced Studies in Victorian Literature This course offers special study of an author (or authors), theme or genre in Victorian literature. Possible authors include George Eliot, Dickens, or the Brontës. Possible topics include social realism, psychological realism, violence and domestic realism, fictional autobiography, Victorian gothic or female self-expression.

ENGL 685-3 Advanced Studies in Modern and Contemporary Literature in the United States This advanced course in American writing since 1900 emphasizes American cultural contexts. The course may focus on specific author or specific authors, on a particular genre, theme or region, or on ethnic and minority literature.

ENGL 686-3 Advanced Studies in Literature of the Fantastic This course explores various periods and aspects of fantastic literature. When appropriate, the course will include film and graphic arts as well as literary texts.

ENGL 690-3 Bibliography This course offers an introduction to the conventions of literary bibliography, as well as electronic bibliography and document retrieval. Where possible, the course is related to another graduate course being taken concurrently by the student.

ENGL 691-3 Advanced Studies 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.

ENGL 693-3 Advanced Cultural Studies This course introduces students to the interdisciplinary methodologies of cultural studies, with a focus on definitions of culture and the imbrications of race, class, and gender. It explores of the themes of postmodernism, popular culture, historical cultural formations, social history, and/or the relation between politics and culture.

ENGL 698-3 Advanced Topics

ENGL 699-3 Advanced Independent Study in Literature

ENGL 700-3 Studies in Literature, Culture and Place This course investigates theories and representations of culture and place in literary studies. Authors studied may include Homi K. Bhabha, Edward Said, and Raymond Williams. The course may explore intersections of culture and place across literary periods and nationalities, in contemporary popular culture, and in contemporary theory.

ENGL 770-12 Major Research Paper/Creative Project In this course, English MA students choosing the course-based MA path complete a 25-30-page (7500-8500-word) research paper or a comparable creative project. Although the major paper or creative project is not as extensive as a thesis or creative thesis, it offers students the experience of extended research or creative work.

Prerequisites: ENGL 690-3, ENGL 700-3 and four other graduate courses

ENGL 799-15 English MA Thesis Under the guidance of a supervisor, students are required to produce and defend an academic thesis of approximately 100 pages in length. At the discretion of the Department, students may complete a creative thesis that meets the requirements outlined in the English (MA program) section of the Graduate Calendar. The thesis is intended to require approximately 12 months of full-time work.

Engineering (ENGR)

ENGR 700-3 Technical Writing This course is an introduction to technical writing concepts for graduate students focusing on thesis and report writing. It is intended to help students improve their general writing skills while learning principles and approaches for producing good quality thesis, report, and article manuscripts. Specific topics to be covered include thesis and report writing, improving grammar and organization, literature reviews, and referencing and documentation, including how to avoid plagiarism. Students prepare and submit a written report on a topic in Engineering related to his/her field of research.

ENGR 701-1.5 Graduate Seminar in Engineering This course covers important subject areas in specific engineering disciplines and specializations, including, risk assessment, safety, project management and law, and ethics. All MASC students are required to register twice in this course during their degree.

ENGR 790-12 Master of Applied Science in Engineering Thesis Students are required to submit a thesis that represents the result of the student's original research undertaken after admission to the program. The MASC thesis is prepared under the guidance of the primary supervisor and committee. Students are required to defend the thesis at an oral examination as this course is required for graduation in the Master of Applied Science in Engineering thesis option.

ENGR 792-6 Master of Applied Science in Engineering Project Students are required to submit a project that represents the result of their original research undertaken after admission to the program. The MASC project is prepared under the guidance of the primary supervisor and committee. Students are required to pass an evaluation of the project with the examining committee as this course is required for graduation in the Master of Applied Science in Engineering project option.

ENGR 798-(1-6) Special Topics This course is intended to fulfill requirements for specialized instruction in any of the disciplines in Engineering. Topics are chosen depending upon student interest and instructor availability, and topic headings vary from year to year and from section to section.

ENGR 799-(1-6) Independent Studies This course provides a concentration on a particular topic or topics agreed upon by the student and a member of the faculty in the MASC Graduate Program. This course may be repeated to a maximum of 6 credit hours, provided that all topics are distinct.

Environmental Planning (ENPL)

ENPL 605-3 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.

Precluded: ENPL 410-3, ENVS 410-3, ENVS 605-3

ENPL 606-3 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.

Precluded: ENPL 411-3, ENVS 411-3, ENVS 606-3

ENPL 609-3 First Nations Community and Environmental Planning This is a workshop-style, project-based course that will allow students to work on an applied, field-based planning project in collaboration with a First Nations community.

Prerequisite: Permission of the instructor

Precluded: ENPL 409-4

ENPL 619-3 Ecological Design This course provides an overview of the unique planning and development dimensions of small communities and rural regions, with specific focus on ecological constraints and opportunities. Current planning practice and new ecological planning principles are examined. Design and planning technologies are utilized.

Precluded: ENPL 415-3, ENVS 415-3, ENVS 619-3

See NRES course listing for additional 700-level Environmental Planning courses.

Environmental Science (ENSC)

ENSC 604-3 Waste Management This advanced 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.

Precluded: ENSC 404-3, ENVS 404-3, ENVS 604-3

ENSC 607-3 Environmental Modelling This advanced 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 complement lecture topics and focus on the development of computer-based modelling skills.

Precluded: ENSC 406-3, ENVS 406-3, ENVS 607-3

Course Descriptions: ENSC

ENSC 608-3 Storms This advanced course covers the following topics: analysis and dynamics of synoptic weather systems; cyclones and cyclogenesis; fronts, thunderstorms, and jet streams; stability and thermodynamic charts; satellite and radar imagery; severe weather; and weather forecasting.

Precluded: ENSC 408-3, ENVS 408-3, ENVS 608-3

ENSC 612-3 Air Pollution This advanced multidisciplinary course focuses on air pollution. Topics include: emissions, chemistry, air pollution meteorology and dispersion modelling, engineering and legislative controls, health effects, airshed planning.

Precluded: ENSC 412-3, ENVS 412-3, ENVS 612-3

ENSC 618-3 Environmental Measurement and Analysis This advanced course for Environmental Science and Environmental Engineering majors is focused on advanced environmental measurement and analysis of atmospheric, aquatic, and terrestrial systems. The approach is practical, integrative and problem-based. Students may examine natural and managed systems, including engineered systems (e.g., waste management) and systems impacted by anthropogenic activity (e.g., contamination).

Precluded: ENSC 418-3, ENVS 418-3

ENSC 625-3 Climate Change and Global Warming The 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.

Precluded: ENSC 425-3

ENSC 635-3 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 advanced 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.

Precluded: ENSC 435-3, FSTY 455-3, NREM 655-3

ENSC 650-3 Environmental and Geophysical Data Analysis The focus of this advanced 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 includes labs in which students are expected to apply theories and methods covered in lectures to solve practical problems using computer software for statistical data analysis.

Precluded: ENSC 450-3

ENSC 651-3 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 processes, the occurrence and movement of groundwater, steady-state and transient well hydraulics, aquifer testing techniques, unsaturated flow theory, and groundwater modelling techniques. Supporting computer software may be used.

Precluded: ENGR 451-3, ENSC 451-3

ENSC 652-3 Reclamation and Remediation of Disturbed Environments This advanced course takes an integrative approach to the remediation and reclamation of drastically disturbed environments. Understanding behavior, fate and transport of contaminants is used to place remediation within the context of use-specific risk reduction. Reclamation is examined as a way to return land to some agreed-upon purpose. Societal involvement is explored as a guide to acceptable choices of goals and options. The focus is on the remediation and reclamation of terrestrial systems, but aquatic systems are also included.

Precluded: ENSC 452-3

ENSC 653-3 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.

Precluded: ENSC 453-3

ENSC 654-3 Snow and Ice This advanced course focuses on the physical processes involving snow and ice that influence the hydrometeorology of Northern British Columbia and the rest of Canada including: snowpack, permafrost, lake, river and sea ice, and glacier formation and ablation processes; the characteristics of snow and ice and how they evolve with climate change. Students conduct an extensive snow survey in the field.

Prerequisites: Permission of the Instructor

Precluded: ENSC 454-3

See NRES course listing for additional 700-level Environmental Science courses.

Environmental and Sustainability Studies (ENVS)

ENVS 602-3 Environmental and Natural Resources Issues and Ethics Analysis of environmental and natural resource issues from an ethical perspective; viewpoints and value systems that determine management decisions.

Precluded: ENVS 414-3, NREM 411-3

See NRES course listing for additional 700-level Environmental and Sustainability Studies courses.

First Nations Studies (FNST)

FNST 600-3 Foundations of First Nations Studies: Theory and Practice A seminar in which major contributions to the field are reviewed and the methods, approaches and conclusions of the works are explicated and located within contemporary theory.

FNST 601-3 Research Methods A graduate seminar on quantitative methods of research in First Nations Studies, including community-based research methodology.

FNST 602-3 The Practice of Research A seminar in which students will design and pilot projects to implement methods and approaches for research in First Nations Studies, and will present papers discussing the implications of various approaches for the discipline. An advanced graduate research methods course from another program may be substituted with special permission.

FNST 605-3 The State of the Discipline A seminar in which students will present papers concerning current theoretical and methodological issues in the discipline.

FNST 606-3 Indigenous Issues in International Perspective A seminar in which issues such as land rights, relations to nation-states and cultural autonomy are examined by graduate student papers presenting cases from a variety of indigenous groups.

FNST 607-3 Indigenous Perspectives on Race, Class, Gender and Power A seminar in which examples from specific groups will be read against contemporary theory.

FNST 613-3 Themes 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.

Precluded: GNDR 613-3

FNST 622-3 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: FNST level 4 (or equivalent) in the appropriate First Nations language

FNST 623-3 A Study of a First Nation's Language Family and Its Linguistic Relatives This course includes: 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: FNST level 4 (or equivalent) in the appropriate First Nations language

FNST 624-3 The Literature of a First Nation A study of a First Nation's literature in a First Nation's language.

Prerequisites: FNST level 4 (or equivalent) in the appropriate First Nations language

FNST 650-3 Special Topics

FNST 651-3 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: Permission of the instructor

Precluded: ANTH 451-3, ANTH 651-3, FNST 451-3

FNST 751-3 Directed Readings

FNST 790-3 Internship I

FNST 791-3 Internship II

FNST 795-3 Research Seminar This course focuses on supporting students' ongoing work on their thesis. In particular, the course will identify and explain the various tasks that are typically involved in the development of a thesis; for example, design, implementation, analysis, interpretation and writing. Co-operative problem solving will be employed to assist students to develop their thesis plans.

Prerequisites: FNST 600 and FNST 602

Precluded: EDUC 795-3 and HHSC 795-3

FNST 797-15 MA Project The MA Project is a praxis-oriented community-based research option and will be considered an alternative to the Thesis for completion of the Master's Degree in First Nations Studies. A Project committee made up of the advisor from the First Nations program, one other faculty, and one First Nations community member guides the MA Project student. Students taking the Project path are required to produce a scholarly product to be presented in a scholarly form.

Prerequisites: Students must have completed the required courses for the MA in First Nations Studies (FNST 600-3; FNST 602-3, FNST 790-3; one elective course in the student's chosen stream; one elective from graduate offerings at UNBC; and one elective from either the First Nations Issues and Approaches stream or from the Northern Nations stream)

FNST 799-15 Graduate Thesis

Course Descriptions: FSTY, GEOG

Forestry (FSTY)

FSTY 605-3 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.

Preclusions: FSTY 405-3

Geography (GEOG)

GEOG 601-3 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.

Prerequisites: Permission of the instructor

Precluded: GEOG 401-3

GEOG 603-3 First Nations and Indigenous Geographies This course analyzes First Nations and Indigenous traditional land tenure systems, colonial processes of land alienation, and Indigenous methods used for regaining control over territory, including land claims, co-management, and legal reforms. Case studies are drawn from Canadian and international examples.

Prerequisites: Permission of the instructor

Precluded: GEOG 403-3

GEOG 605-3 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: Permission of the instructor

Precluded: GEOG 405-3

GEOG 611-3 Quaternary and Surficial Geology This course examines geomorphic processes and environmental change in British Columbia during the last two million years of Earth's history.

Prerequisites: Permission of the instructor

Precluded: GEOG 411-3

GEOG 613-3 Advanced GIS This course covers the use of remote sensing and satellite imagery in GIS: including scene correction, enhancement and time comparison. This course will deal with advanced GIS and mapping techniques, concentrating on northern British Columbia.

Prerequisites: GEOG 300-3 or permission of the instructor

Precluded: GEOG 413-3

GEOG 616-3 Mountains With a focus on the environment and society tradition in geography, this course explores the diversity and distribution of mountain environments, the physical processes that shape them, and the role played by humans in their exploitation, modification and preservation.

Prerequisites: Permission of the instructor

Precluded: GEOG 416-3

GEOG 620-3 Environmental Justice This course examines environmental injustices in North American and international contexts. We consider cases of environmental racism and responses to injustices (activism; scholarship; policy) related to the following: resource extraction; industrial processes; waste disposal; basic services and quality of life; and tourism.

Prerequisites: Permission of the instructor

Precluded: GEOG 420-3

GEOG 624-3 Northern Communities Dramatic change and transition are re-shaping rural and small town communities. Drawing examples from northern British Columbia, this advanced seminar course examines a range of economic, social, and community issues, and includes a broad class-based project examining a different northern community each year.

Prerequisites: Permission of the instructor

Precluded: GEOG 424-3

GEOG 626-3 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 refugee movements, foreign policy, and grassroots solidarity organizing.

Precluded: GEOG 426-3 Geographies of Culture, Rights and Power, GEOG 498-3 Culture, Rights and Power, NRES 798-3 Culture, Rights and Power

GEOG 650-3 Advanced Geospatial Analysis Students work with and analyze large geospatial remotely-sensed datasets learning and using advanced Python functional programming. In addition to laboratory exercises, students participate in a weekly seminar to critically evaluate research on geospatial algorithms and analyses. Students work together to use geospatial analyses to solve a problem relevant to non-academic stakeholders.

Prerequisites: Permission of instructor

Precluded: GEOG 450-3

GEOG 657-3 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: Permission of the instructor

Precluded: GEOG 457-3

See NRES course listing for additional 700-level Geography courses.

Gender Studies (GNDR)

The following courses are offered as seminar courses. They may also be offered as reading courses, or as independent study courses.

GNDR 609-3 Advanced Feminist Methods 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.

Precluded: WMST 409-3

GNDR 610-3 Feminist Political Philosophy This course provides an analysis and critique of both the historical and contemporary literature on feminist political philosophy. The course traces feminist political philosophy from its enlightenment roots to its contemporary post-modernist critique on enlightenment notions of rationality.

GNDR 611-3 Contemporary Feminist Theories This course covers the recent history of feminist theories beginning with Simone de Beauvoir's *The Second Sex*.

Precluded: WMST 411-3

GNDR 613-3 Themes 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.

Precluded: FNST 613-3

GNDR 698-(3-6) Special Topics This course provides detailed examination of a topic selected by the instructor. Topics may vary from year to year. This course may be repeated for credit where topics vary. This course may be repeated for a maximum of six credits.

GNDR 699-(3-6) Independent Study

GNDR 700-9 Gender Studies Thesis

GNDR 701-3 Gender Studies Major Research Paper

GNDR 703-3 Gender and Post-Colonialism This course examines key post-colonial feminist theorists while also considering post-colonial theorists from a critical feminist perspective.

GNDR 706-3 Feminism and Contemporary Critical Theory This course examines new directions in feminist theories focusing on US, Canadian, British, Third World/postcolonial feminist theories of the 1980s and 1990s. We will discuss the intersections among gender, class, race, sexuality, imperialism and ecology from a multidisciplinary perspective including law, society, politics, literature, culture, science and anthropology. We will also look at critical articulations between feminisms and theories such as Marxism, postcolonialism, psychoanalysis and post-modernism.

GNDR 799-(1-6) Independent Study

Health Sciences (HHSC)

HHSC 600-3 Critical Social and Health Issues in Northern Communities This course will expose students to critical issues in the analysis of social and health problems in Northern Communities. The emphasis will be on interdisciplinary research and analysis in a northern context. Topics will be organized around specific problems to be found in the community, and ways of analyzing them from social and health perspectives.

HHSC 601-3 Principles of Epidemiology Epidemiological principles applicable to infectious and non-infectious diseases are discussed: occurrence and distribution; factors underlying distribution of disease; host-agent environment complex and; principles underlying etiology and causation.

Precluded: HHSC 401-3 and NURS 306-3

HHSC 602-3 Organization and Financing of Canadian Health Care This course focuses on the historical development and current structure and financing of the Canadian health care system, which are related to changes that have occurred in the political, social, and technological environment.

Precluded: POLS 403-3 and POLS 603-3

HHSC 603-3 Community Research Methods A survey of design, strategies, methods, and applied socio-medical disciplines as related to health and health care. Emphasis is based on the application of quantitative and qualitative techniques and in the measurement and health-related attitudes and behaviours and program outcomes.

HHSC 605-3 Health in Developing Countries The patterns of mortality and morbidity in developing countries will be described with a particular focus on those conditions such as malaria that are endemic and influence not only the health but also the social and economic development of the countries. Special emphasis will be placed on Pacific Rim countries.

HHSC 606-3 Health Promotion This course examines health promotion theories, principles, and underlying philosophies. Students identify and critique health promotion issues and will also gain experience in developing strategies to promote health and well-being at individual, group and community levels.

HHSC 607-3 Cultural Perspectives on Health and Illness The cultural influences on the definition, experience, and expression of illness are examined. Attention will be given to ways in which culturally responsive health care can be provided. May be taken as ANTH 498-3 with the permission of the instructor.

HHSC 640-(3-6) Special Topics in Health Sciences The topics for this course will vary, depending on student interest and faculty availability. This course may be repeated for up to 6 credits total (with permission of the instructor and program chair).

Prerequisites: Permission of the instructor and Program Chair

Course Descriptions: HHSC

HHSC 680-(3-6) Directed Studies

HHSC 700-3 Advanced Techniques in Epidemiology This course builds on the principles learned in HHSC 601-3 and focuses on new and advanced techniques in epidemiology. Topics include: risk adjustment, survival analysis, uses of administrative health data, health geography, and advanced training in study design.

HHSC 703-3 Qualitative Research Approaches in Health and Human Sciences This course explores various approaches to qualitative research in the health and human sciences. These approaches are discussed in light of the epistemological and ontological commitments, their methods and their demands upon the researcher. Included is an examination of inherent issues of ethics and rigour. The approaches examined normally include: phenomenology, interpretive phenomenology, participatory action research, feminist research, grounded theory, Indigenous methodologies and institutional ethnography.

Precluded: NURS 609-3

HHSC 760-3 Field School in Human Ecology This field-school is an intensive, interdisciplinary course addressing themes including social-ecological systems, human-environment relationships and ecosystem approaches to health. The course includes class-based sessions and intensive field-based components relevant to the course theme and location, that differ from year to year. The field-school brings together colleagues in natural sciences, health sciences, social sciences, humanities, and beyond, who work in collaboration with interested parties and community members to address issues at the interface of environment, society and health.

Precluded: HHSC 860-3, NRES 760-3

HHSC 790-12 MSc Health Sciences Thesis This thesis is a written report of high academic quality that demonstrates mastery of the health-related field specified and the ability to undertake research. This course is required for graduation in the Master of Science: Health Sciences.

HHSC 795-3 Graduate Seminar in Health Sciences The graduate seminar builds awareness of a range of Health Sciences research, to generate debate on key issues, and to provide a context for research and presentations by students and invited speakers. The graduate seminar creates opportunities for graduate student engagement and interaction, learning and exchange among Health Sciences researchers across UNBC and builds a culture of research and scholarship including presentation and facilitation skills, thesis development, research ethics, grant writing, etc. This course is required for graduation in the Master of Science: Health Sciences.

HHSC 796-1 Health Research Seminar Series In this course, students attend a monthly Health Research Seminar Series where they are exposed to different styles of presentation and are asked to reflect on and learn a range of approaches to Health Sciences research. The course is offered during the January semester and builds on the Health Sciences Graduate Seminar (HHSC 795-3) which is taught in

the September Semester. This is a PASS/FAIL course.

Prerequisites: HHSC 795-3

HHSC 798-(3-6) Directed Studies

HHSC 799-9 MSc Community Health Science Thesis The thesis is a written report of high academic quality that demonstrates mastery of the health-related field specified and the ability to undertake research.

HHSC 800-6 Graduate Seminar This seminar develops critical thinking skills and helps students evaluate a broad spectrum of topics. The seminar generates debate on key issues, promotes interaction with faculty members and other students in the program, and includes presentations by the students and invited speakers. Each PhD student is expected to give four 50-minute presentations. This course is scheduled from September to April.

HHSC 804-3 The Health of First Nations People This course provides a detailed review of the determinants and health status of First Nations peoples. Emphasis is placed on biological determinants and those factors that are derived from the status of the First Nations peoples in the larger population, including evolving lifestyles, environmental influences, dominant government and social policies.

Precluded: NURS 604-3

HHSC 811-3 Organization and Financing of Canadian Health Care This course focuses on the historical development and current structure and financing of the Canadian health care system, which are related to changes that have occurred in the political, social, and technological environment.

Precluded: HHSC 602-3, POLS 603-3

HHSC 820-0 Qualifying Examination and Dissertation Proposal Defense This course is a two-part process, beginning with the Qualifying Examination. Students must submit a paper addressing a research question or topic chosen in collaboration with their Supervisory committee. The Qualifying Paper must include a critical review of literature relevant to the research question, discussion of the theoretical frameworks used to understand or frame the research question, or an in-depth analysis of a specific content area. Subsequent to the Qualifying Examination, students prepare and defend a research Dissertation Proposal that integrates theory, current research and methods in fields related to the selected research problem.

HHSC 840-3 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 credit hours total (with the permission of the instructor and program chair).

HHSC 860-3 Field School in Human Ecology This field-school is an intensive, interdisciplinary course addressing themes including social-ecological systems, human environment relationships and

ecosystem approaches to health. The course includes class-based sessions and intensive field-based components relevant to the course theme and location that differ from year to year. The field-school brings together colleagues in natural sciences, health sciences, social sciences, humanities, and beyond, who work in collaboration with interested parties and community members to address issues at the interface of environment, society and health.

Precluded: HHSC 760-3, NRES 760-3

HHSC 880-3 Directed Readings This course provides a concentration on a particular topic or topics agreed upon by the student and the instructor. This course may be repeated for up to 6 credit hours total (with the permission of the instructor and program chair).

HHSC 890-12 PhD Dissertation The doctoral thesis must emphasize the candidate's original research or provide an original investigation, interpretation or synthesis of existing research.

History (HIST)

HIST 700-3 Seminar in Historical Methodology and Research
This course traces the development of modern historical thought.

HIST 701-3 Themes in the History of Gender The course explores aspects of the history of gender, drawing on the literature of women and men in various parts of the world.

HIST 702-3 Themes in Indigenous History This course examines the history of indigenous people and their relations with non-indigenous people, drawing on the literature on a number of countries.

HIST 704-3 Themes in Environmental History This course explores aspects of environmental history, drawing on the literature from a number of countries.

HIST 705-3 Themes in the History of International Relations
Aspects of the history of the relations between nations drawing on the literature from a number of countries.

HIST 707-3 Themes in Cultural History This course explores themes in the history of culture and draws upon relevant literature from various countries or eras.

HIST 708-3 Themes in Social History This course explores themes in social history and draws upon relevant literature from various countries or eras.

HIST 709-3 Themes in Legal History Exploring themes in legal history, this course may draw on literature from various countries and eras.

HIST 745-3 Historical Methods and Approaches Historical methods and research techniques are examined in this seminar;

students also learn about research design and prepare thesis proposals.

HIST 750-15 MA Thesis or Project Working under the guidance of a supervisor, each student must plan a study requiring original research and sophisticated analysis in order to produce and defend either (a) a substantial thesis or project of approximately 25,000 to 30,000 words (85-100 pages) or (b) an original project of comparable weight to a thesis. Projects may include knowledge transmission, museum exhibits, documentary films, creative writing, digital history initiatives, and/or artistic projects based on substantial historical research.

Prerequisite: Students must have completed the graduate courses required for a Master's degree in history, including HIST 700-3.

HIST 760-12 History Master's Major Research Paper Students complete a scholarly paper of approximately 9,000 to 11,000 words (30-36 pages), based on original research and defending an original argument, and modelled on an article-length manuscript prepared for submission to a peer-reviewed historical journal. Students prepare an oral presentation of about twenty minutes based on that scholarly paper, and modelled on a presentation at a scholarly conference.

Prerequisites with concurrency: HIST 700, HIST 745, and four other graduate courses

Precluded: HIST 750

HIST 799-3 Independent Study The details of this course will be determined on a case-by-case basis between faculty and graduate students.

Integrated Engineering (IENG)

IENG 611-3 Introduction to Wood as a Building Material This course provides an overview of wood as a construction material and the recent history of wood and timber construction and examines the mechanical properties of wood. It covers a variety of traditional and modern applications including recent product developments by exploring the design and construction of iconic wood structures. Field trip(s) are required.

IENG 612-3 Project Design I This course focuses on principles of structural mechanics and their applications in wood structures. Load calculation procedures for typical structures under practical conditions are presented. Analysis of different types of structural members and connections are discussed.

Prerequisites: IENG 611-3, or by permission of the Program Chair

IENG 613-3 Wood Design I This course focuses on the design of timber structural elements and connections. Topics include the behavior and design of bending, tension and compression members made of solid timber or glue-laminated timber and the complete suite of contemporary connectors and connector systems. Students design and analyze various structural components and design, build, test and analyze a connection assembly.

Prerequisites: IENG 611-3, or by permission of the Program Chair

Course Descriptions: IENG

IENG 614-3 Building Science I This course focuses on the fundamentals of acoustic design and sound separation, it also addresses absorbing and reducing the transfer of sound in wooden or composite buildings and mitigating other sources of vibration. The basics of fire dynamics, the principles of fire protection, and the behavior of wood buildings during fire are explored. Light and electromagnetic fields in buildings are also studied.

Prerequisites: IENG 611-3, or by permission of the Program Chair

IENG 615-3 Wood Science This course examines the macroscopic and microscopic anatomical features of wood and explores its physical properties. The course looks at the wood-water interaction and methods of wood drying. Students learn to identify macroscopically commonly used wood species.

Prerequisites: IENG 611-3, or by permission of the Program Chair

IENG 626-3 Sustainable Design I This course focuses on sustainable design, durability and resilience as well as energy efficiency and lowest possible environmental impact. It addresses the adaptation of design to climate zones, the interconnection of architectural volumes, form, envelope design and healthy living. It explores the integration of mechanical systems and their influence on design. Parameters of healthy living, air quality and thermal comfort are introduced. Economic calculations and life cycle assessment are discussed.

Prerequisites: IENG 611-3, or by permission of the Program Chair

IENG 719-3 Special Topics I This course focuses on recent developments in the Canadian and/or international wood construction industry. Topics vary and explore recent trends, methods or new products and approaches in the industry. Field trips are required.

Prerequisites: IENG 611-3, or by permission of the Program Chair

IENG 722-3 Project Design II Focusing on a realistic design task, this course is a wood design studio, where students apply design skills acquired in previous courses including structural design and building science.

Prerequisites: IENG 723-3, or by permission of the Program Chair

IENG 723-3 Wood Design II This course focuses on structural design of timber floors and lateral load resisting systems. Topics include: the behavior and design of floors made from solid timber; engineered wood products; timber-concrete composites; contemporary lateral load resisting systems such as light-frame; cross laminated timber shear walls and diaphragms; and moment frames. Students design and analyze various structural wood and hybrid systems.

Prerequisites: IENG 613-3, or by permission of the Program Chair

IENG 724-3 Building Science II This course addresses the fundamentals in building envelopes of building physics, thermal performance including thermal bridges, and hydrodynamic processes. Students examine airtightness and convection-based influences along with durability of building envelopes. The principles and details of energy-efficient design, specifically on wood buildings, are applied.

Prerequisites: IENG 614-3, or by permission of the Program Chair

IENG 727-3 Wood Processing This course introduces students to state-of-the-art fabrication technology such as CNC machines and industrial robots including tooling options. Students learn the basics of plant layout, conduct a feasibility study and create plant layouts which could be used to manufacture a structure to the highest standards and efficiency.

Prerequisites: IENG 611-3 and IENG 615-3, or permission by the Program Chair

IENG 729-3 Special Topics II This course introduces structural systems and their applications in wood structures. Analyses of structural systems for a range of static and dynamic loadings are presented. Code provisions relevant to practical applications are discussed.

Prerequisites: IENG 611-3, or by permission of the Program Chair

IENG 731-9 Project Design III This course is the capstone project and can include various fields covered in the program. Students are encouraged to combine several topics to demonstrate integrated design skills.

Prerequisites: IENG 723-3 and IENG 724-3, or by permission of Program Chair

IENG 734-3 Sustainable Design II This lecture-based course focuses on the highest priorities of sustainable design in both energy efficiency and moderate and cold climates. Design of energy-efficient buildings, interconnection of architectural volumes, form, envelope design and healthy living are evaluated. Energy efficiency standards are explored. The integration of building services such as HRV, HVAC and renewable energy generation and their influence on the design are introduced.

Prerequisites: IENG 626-3, or by permission of the Program Chair

IENG 738-3 Analysis In this course, students learn the analysis of one or more aspects of wood or hybrid structures including the following: structural design; specific modern wood based, composite or hybrid materials; envelope design; building science; and sustainable design. The analysis focuses on environmental impact and energy efficiency. Students present the results of this analysis in the form of a case study.

Prerequisites: IENG 611-3, or by permission of the Program Chair

IENG 739-3 Special Topics III This course focuses on recent developments in the Canadian and international wood and/or sustainable construction industry. Topics vary and explore recent trends, methods or new products and approaches in the industry. Field trip(s) are required.

Prerequisites: IENG 611-3

Interdisciplinary Studies (IDIS)

IDIS 704-3 Graduate Seminar in Interdisciplinary Studies The weekly seminar course allows students to investigate and present ideas and results pertaining to current research in interdisciplinary studies. The offerings may include presentations of current literature, research methodology, and topics related to students' own research work. Students participate in discussions and critique the work present. All IDIS students must successfully complete this seminar course once during their program of studies. MA and MSc students are required to attend and participate in all seminar sessions to obtain credit for the course. This is a PASS/FAIL course.

Precluded: CPSC 704-3, MATH 704-3, MCPS 704-3, NRES 704-3

IDIS 791-(3-6) Special Topics The course provides an opportunity for students to study at an advanced level a topic relevant to their interdisciplinary program.

IDIS 798-12 MSc Thesis The MSc thesis requires that a student undertake original research involving a literature review and the development of a research design and methodology appropriate to the research problem. The implementation of the research methodology normally includes original investigation and data collection, the analyses and discussion of which constitute the major part of the completed research thesis. The thesis may involve, but is not confined to, the testing of a specific hypothesis or hypotheses.

IDIS 799-12 MA Thesis

International Exchange (INTX)

INTX 688 (1-18) International Exchange Program Graduate 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 at least six credit hours of graduate level coursework at UNBC and approval of the graduate supervisor. A student may register in this course more than once for a maximum of 18 credit hours.

International Studies (INTS)

INTS 607-3 Global Economy and Development This advanced course analyzes the evolution and assesses competing theories of the global economy. The prospects for developing countries within the global economy are examined.

Precluded: ECON 401-3, ECON 601-3, INTS 407-3

INTS 620-3 International Regimes Broadly known as norms, principles, rules, and decision-making procedures that prescribe and proscribe certain types of behaviour, international regimes or institutions are seen as fundamental bases on which many international actors do what they do. This course investigates the shifts that have occurred in international institutions and the predominance of international (or global governance) normative arrangements in areas such as human rights, human security, finance, trade, development, environment, and resource extraction.

Precluded: INTS 420-3

INTS 621-3 The Political Economy of Natural Resource Extraction This course examines the political economy/ecology of natural resource extraction by examining issues such as the socio-economic, political, human and environmental dimensions of extractive activities. Specific global case studies are used to explore the concepts of sustainable livelihoods, vulnerability and adaptation, community well-being and governance at both domestic and global levels.

Precluded: INTS 425-3

INTS 625-3 Sustainability Problem Solving Can we fix it? This advanced course focuses on critical, strategic, and lateral-thinking skills. Local to global sustainability issues are explored in dynamic and future contexts using the contemporary concepts of vulnerability, adaptation, adaptive capacity, and resilience. Students gain valuable experience in the use of analytical and creative tools including systems thinking, complexity mapping, mental models, and scenario development. Examples are drawn from the Arctic, Pacific Islands Region, Australia, and South America.

Precluded: INTS 421-3

INTS 640-3 Environment and Development in the Circumpolar North Examination of conservation and development issues and experiences in the northern circumpolar countries.

INTS 650-3 Pacific Affairs A detailed study of contemporary issues in the relations between Asia-Pacific nations, including an assessment of regional and subregional institutions.

INTS 660-3 Issues in Canadian Foreign Policy A detailed examination of selected problems in Canada's foreign relations.

INTS 698-(3-6) Special Topics in International Studies This course offers a detailed examination and analysis of a contemporary issue in international studies, including the exploration of future policy options.

INTS 699-(3-6) Independent Study This course enables students to read in depth in an area of international studies not normally covered by existing courses in the program. Permission of the graduate advisor and consent of the faculty supervisor is required.

Course Descriptions: INTS, MATH

INTS 700-3 Research Methods in Global Studies This course is a graduate seminar on quantitative and qualitative methods in Global Studies. Theoretical, methodological and practical issues in undertaking research from a global perspective are examined.

INTS 701-3 State of the Discipline A graduate seminar in which students prepare and present a series of papers concerning theoretical, methodological and instructional issues in International Studies.

INTS 702-0.5 Graduate Colloquia Students attend colloquia on a range of research conducted on global issues. Students must register twice in this course. The course is offered during the September and January semesters. This course is PASS/FAIL.

Precluded: ECON 700-0.5

INTS 797-3 Research Paper This course involves the student (or students) working with a supervisor to prepare a document for submission for publication. The topic and form of publication are decided by the supervisor and the student(s).

INTS 799-12 MA Thesis

Mathematics (MATH)

MATH 602-3 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, Banach spaces, linear functionals and dual spaces, topological vector spaces, and Hilbert space.

Prerequisites: MATH 302-3

Precluded: MATH 400-3, MATH 402-3, MATH 600-3

MATH 603-3 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

Precluded: MATH 401-3, MATH 403-3, MATH 601-3

MATH 620-3 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

Precluded: MATH 420-3

MATH 621-3 Field Theory Topics discussed will include: fields, field extensions, splitting fields, automorphism group, Galois Theory.

Prerequisites: MATH 320-3

Precluded: MATH 421-3

MATH 635-3 Numerical Methods in Differential Equations A course in numerical analysis which focuses mainly on the numerical solution of ordinary and partial differential equations. Topics include initial value problems for systems of ordinary differential equations, boundary valued problems for ordinary differential equations, and an introduction to the numerical solution of canonical second-order partial differential equations via finite difference methods.

Prerequisites: MATH 230-3 and MATH 335-3 or equivalent

Precluded: MATH 331-3 or MATH 435-3

MATH 636-3 Partial Differential Equations 1 This is an advanced course in deterministic studies of partial differential equations (PDE). The main focus is on linear PDE models of first and second order arising from various disciplines. The course introduces analytic techniques related to three classical types of PDE: elliptic, parabolic and hyperbolic. Topics include: method of characteristics; Sobolev spaces; distributional derivatives; variational methods; maximum principle; Harnack inequalities; and qualitative properties of solutions to certain models.

Prerequisites: MATH 336-3, or MATH 302-3 & MATH 230-3, or permission of the instructor

Precluded: MATH 436-3

MATH 650-3 Combinatorics This course is 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: Permission of the instructor

Precluded: MATH 450-3

MATH 655-3 Graphs and Algorithms Topics are chosen from 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

Precluded: MATH 455-3

MATH 681-3 Analytic Number Theory This is an advanced course in analytic number theory. This course covers the following topics, with other topics as time permits: arithmetic functions and their average orders; prime counting functions; elementary theorems on the distribution of prime numbers; Dirichlet characters; Dirichlet theorem on primes in arithmetic progressions; Dirichlet series and Euler products; analytic properties of the Riemann zeta function and Dirichlet L-functions; the prime number theorem; and the prime number theorem in arithmetic progressions.

Precluded: MATH 481-3

MATH 699-3 Special Topics in Mathematics The topics for this course will vary, depending on student interest and faculty availability.

Prerequisites: Permission of the instructor

MATH 700-3 Topics in Functional Analysis Topics may include operators on Hilbert spaces, Banach space theory, operator analysis.

Prerequisites: Permission of the instructor

MATH 704-1.5 Graduate Seminar in Mathematics This course is comprised of weekly seminar sessions. Students will investigate and present ideas and results pertaining to current research in mathematics. The offerings may include presentations of current literature, research methodology, and topics related to students' own research or project work. Students will participate in discussions and critique the work presented. MSc students are required to attend and participate in all seminar sessions to obtain credit for the course. This is a PASS/FAIL course. All MSc students must register in a seminar course twice during their program of studies. It is expected that all MSc students will attend the seminar each semester they are available.

Prerequisites: Permission of the instructor

MATH 705-3 Complex Analysis Analytic functions, Cauchy-Riemann equations, power series, Liouville theorem, maximum modulus principle, Cauchy's theorem, winding number, calculus of residues, meromorphic functions, conformal mappings, Riemann mapping theorem, analytic continuation.

Prerequisites: Permission of the instructor

MATH 720-3 Topics in Algebra and Logic Topics may include Universal Algebra, Recursion Theory, Model Theory.

Prerequisites: Permission of the instructor

MATH 725-3 Topics in Topology Topics are chosen from topological spaces, Tychonoff theorem, Tietze extension theorems, Urysohn lemma, compactification, homotopy theory, fundamental group, uniform spaces, and knot theory.

Prerequisites: MATH 226-3 and MATH 302-3 and either MATH 321-3 or MATH 405-3, or permission of the instructor

MATH 731-3 Topics in Applied Mathematics Topics may include Operations Research, Discrete modelling, Biomathematics.

Prerequisites: Permission of the instructor

MATH 740-(1-6) Advanced Topics in Mathematics This course permits specialized instruction in the discipline of Mathematics. Topics are chosen depending upon student interest and faculty availability, and topic headings vary from year to year and from section to section. With permission of the Chair, this course may be taken any number of times provided all the topics are distinct.

Prerequisites: Permission of the instructor

Mathematical, Computer, Physical and Molecular Sciences (MCPM)

MCPM 704-1.5 Graduate Seminar This course comprises weekly seminar sessions and is offered during both the September and January semesters. At least one of the course offerings each year provides students with an opportunity to present ideas pertaining to their research proposals, or the overall research design, methodology and results of a thesis or non-thesis project. The second offering each year may follow a similar traditional seminar format or may involve a class project related to MCPM. Students are required to attend and participate in all seminars to get credit for the course. (All MSc students must register in a seminar course twice during their program of studies. It is expected that all MSc students will attend the seminar each semester in which it is available.) This is a PASS/FAIL course.

MCPM 790-12 MSc Thesis Credit for the MSc thesis results from the student making a contribution to a scientific field. It requires that a student undertake original research involving a literature review and the development of a research design and methodology appropriate to the research problem. The implementation of the research methodology normally includes original investigation and data collection, the analyses and discussion of which constitutes the major part of the completed research thesis. The thesis may involve, but is not confined to, the testing of a specific hypothesis or hypotheses.

MCPM 791-6 MSc Project Credit for the MSc Project is given for the completion of an extended position paper, report, plan or program that makes a contribution to, or addresses a major problem issue in, a scientific field. The development of the project requires the application of original thought to the problem or issue under investigation. The non-thesis project does not require the development of a research design or research methodology, and need not involve the collection of original data.

MCPM 798-(1-3) Special Topics This course fulfils requirements for specialized instruction in the Mathematical, Computer, Physical, and Molecular Sciences Graduate Program. Topics chosen are dependent upon student interest and instructor availability. Topic headings and credit hours vary from year to year and from section to section. This course may be repeated for a maximum of three credit hours.

Prerequisites: Permission of the Chair of the MCPM Graduate Program Committee

MCPM 799-(1-6) Independent Study This course provides a concentration on a particular topic or topics agreed upon by the student and a member of the faculty in the Mathematical, Computer, Physical and Molecular Sciences Graduate Program. This course may be repeated to a maximum of 6 credit hours.

Prerequisites: Permission of the Chair of the MCPM Graduate Program Committee

Course Descriptions: NRES

Natural Resources and Environmental Studies (NRES)

The content of NRES 700-level courses supports the range of streams within the NRES degrees including Biology, Environmental Science, Environmental Studies, Forestry, Geography, and Outdoor Recreation and Tourism Management.

NRES 698-(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.

NRES 700-3 Research in Natural Resources and Environmental Studies This course exposes Master's students to various philosophies and epistemologies regarding research within the field of natural resources and environmental studies. Topics include the nature of research, communicating research, research ethics, qualitative and quantitative methodology and interdisciplinary research.

Prerequisite: Enrollment in a graduate program

NRES 701-.5 Graduate Colloquia Students attend weekly colloquia on a range of research conducted in natural resources and environmental studies. Students must register twice in this course. The course is offered during the September and January semesters. This is a PASS/FAIL course.

NRES 703-3 Integrated Resource Management A critical examination of the concepts, policies, and methods for integrating multiple uses and resource values into management of forest and rangeland ecosystems.

NRES 710-3 Modelling and Simulation This course enables students to use models to represent and analyze quantitative aspects of natural systems (static, dynamic, and spatial). The course involves use of analytical, physical, and/or numerical models such as computational fluid dynamics models to simulate natural systems. Visualization, validation, verification, and sensitivity analysis of models are discussed.

NRES 712-3 Spatial and Temporal Analyses This course exposes students to analyses associated with the spatial and temporal dynamics of ecological systems. Emphasis is on recognizing and understanding inherent challenges of these approaches rather than statistical theory. Topics may include: identification of temporal and spatial patterns, issues of inference and statistical tests associated with spatial and temporal analyses, and applications of remote sensing and GIS to environmental monitoring and natural resources management.

Prerequisites: Permission of the instructor

NRES 720-3 Global Change This integrative course deals with physical, chemical, biological, and social dimensions of human influence on global conditions such as greenhouse gases, desertification, ozone depletion and eutrophication. Global element cycles are used to provide integration. Impacts of global change on people, communities and economies, and adaptation to or mitigation of global change are discussed.

Prerequisites: Earth System Science (400 level) or equivalent course, or permission of instructor

NRES 730-3 Disturbance Ecology This course covers the effects of biotic and abiotic disturbance agents on ecological processes in terrestrial and aquatic systems. Topics covered may include the role of disturbance frequency, scale and pattern in vegetation and animal succession, animal and plant adaptation and dependence on disturbance, and effects of anthropogenic disturbances or management of disturbance events on ecosystem function. The course may include a field study of a selected system, e.g., sub-boreal forest or prairie landscape.

Prerequisites: Permission of the instructor

NRES 733-3 Plant-Animal Interactions This course examines the contribution of plant and animal interactions to ecosystem variability and stability. Examples include a range of taxa from invertebrates through large mammals, living in systems that have co-evolved versus those that have not. Topics may include plant defenses to herbivory, use of stable isotopes to define food webs, and the applicability of using predator-prey models to describe plant-animal interactions.

Prerequisites: Strong background in general ecology

NRES 737-3 Evolutionary Biology This course is an examination of evolutionary processes, including discussions of micro- and macro-evolutionary change and the underlying behavioural, ecological, physiological, biochemical and genetic variation among individuals upon which evolution can act. Topics vary with the instructor, and may include: molecular evolution, concepts and mechanism of speciation, adaptations that affect the evolution of organisms, or factors limiting their exploitation of different environments.

Prerequisites: Permission of the instructor

NRES 760-3 Field School in Human Ecology This field-school is an intensive, interdisciplinary course addressing themes including social-ecological systems, human-environment relationships and ecosystem approaches to health. The course includes class-based sessions and intensive field-based components relevant to the course theme and location, that differ from year to year. The field-school brings together colleagues in natural sciences, health sciences, social sciences, humanities, and beyond, who work in collaboration with interested parties and community members to address issues at the interface of environment, society and health.

Prerequisite: HHSC 760-3, HHSC 860-3

NRES 761-3 Graduate Field Applications in Resource Management

This field-based course, normally offered in conjunction with NREM 333-3, provides graduate students with a practical understanding of principles of integrated resource management. The course focuses on the many values of 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.

Precluded: NREM 333-3

NRES 762-3 Graduate Biology Field School This is a graduate level experiential course designed for students to focus on theoretical and practical skills involved in the field. It is normally offered in conjunction with BIOL 333-3 Biology Field School. 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.

Precluded: BIOL 333-3

Co-requisites: NRES 798-(1-3) taken with the instructor(s) of the Field School

NRES 763-3 Graduate Geography Field School Graduate students apply field methods in physical and/or human geography towards an integrated study of local and global environments. This course is normally taught concurrently with GEOG 333-3.

Precluded: GEOG 333-3

NRES 770-3 Rural and Small Town Geography This course integrates social science research on rural and small town change within the context of northern communities. Issues may include work, housing, gender, ethnicity, social services provision, community conflict, and quality of life. The course emphasizes case study research within theoretical frameworks, and draws especially upon examples from northern British Columbia.

Prerequisites: Permission of the instructor

Precluded: GEOG 624-3

NRES 773-3 Advanced Qualitative Research Methodology

This seminar course explores methodological approaches to, and theoretical frameworks of, qualitative research. Emphasis is given to exploring key concepts of validity, rigour, reliability, subjectivity/objectivity, and ethics of concern to qualitative researchers. The course surveys various frameworks including indigenous, feminist, and critical methodologies, among others, to understand their assumptions and approaches to fieldwork including interviewing, survey work, field notes, writing results, and reciprocity. This course explores how to translate abstract concepts such as place, space, scale, region, and mobility into viable field methods.

NRES 775-3 Society and Natural Resources This graduate seminar course explores different aspects of the relationship between society and natural resource development. The themes explored vary depending on student interests and instructor areas of expertise, but typically involve consideration of the following: social processes by which natural resources are defined and valued; how these processes change over time and space; how conflicting and contradictory values and understandings of natural resources are resolved; and the social processes by which natural resource development is managed. Themes may include considerations of gender, culture, place, economics and governance.

NRES 776-3 Advanced Statistical Analyses for Natural Resource Sciences

This course provides graduate students in natural resource sciences with advanced, practical training in the analysis of quantitative data. The course focuses primarily on advanced univariate statistics that can be applied to both experimental and observational data. This focus includes a full exploration of generalized linear models (E.g., linear, logistic, and mixed models) as well as methods for experimental data including analysis of variance and associated techniques. Also, students receive instruction in the principles of experimental design, data management, and the review and reporting of statistical results. Students receive instruction in the use of statistical software used for manipulating and analysing data that are applicable to the natural resource sciences.

Prerequisites: Undergraduate course in univariate statistical analysis or permission of the Instructor

Preclusions: NRES 798-3 when offered as Statistical Methods for Ecologists

NRES 790-12 Master of Science (NRES) Thesis The MSc thesis results in a scientific contribution to a traditional science field or to an applied understanding of resources and the environment. It requires that a student undertake original research involving a literature review and the development of a research design and methodology appropriate to the research problem. The implementation of the research methodology will normally include original investigation and data collection, the analyses and discussion of which will constitute the major part of the completed research thesis. The thesis may involve, but is not confined to, the testing of a specific hypothesis or hypotheses. Required for graduation in the Master of Science (Natural Resources and Environmental Studies stream).

Precluded: BIOL 720-12, ENVS 720-12, GEOG 720-12, NREM 720-12

NRES 792-12 Master of Natural Resources and Environmental Studies Thesis

The MNRES thesis addresses an integrated research problem. It requires that a student undertake original research involving a literature review and the development of a research design and methodology appropriate to the research problem. Implementation of the research methodology will normally include original investigation and data collection, the analyses and discussion of which will constitute the major part of the completed research thesis. The thesis may involve, but is not confined to, the testing of a specific hypothesis or hypotheses. Required for graduation in the Master of Natural Resources and Environmental Studies Thesis option.

Course Descriptions: NRES

NRES 793-6 Master of Natural Resources and Environmental Studies Project The MNRES project is an extended position paper, report, plan or program that addresses a major problem or issue relevant to the field of natural resources and environmental studies. The project development requires the application of original thought to the problem or issue under investigation, and the framing of that problem within the broader context of natural resources and the environment. The project does not require the development of a research design or research methodology, and need not involve the collection of original data. Students are required to pass an evaluation of the project set by the supervisory committee as this course is required for graduation in the Master of Natural Resources and Environmental Studies project option.

Precluded: NREM 710-(3-6)

NRES 794-12 Master of Arts (NRES) Thesis The MA thesis contributes to the understanding of social, political, economic, and/or cultural dimensions of natural resources and the environment. It requires that a student undertake original research involving a literature review and the development of a research design and methodology appropriate to the research problem. The implementation of the research methodology will normally include original investigation and data collection, the analyses and discussion of which will constitute the major part of the completed research thesis. The thesis may involve, but is not confined to, the testing of a specific hypothesis or hypotheses. Required for graduation in the Master of Arts (Natural Resources and Environmental Studies).

NRES 798-(1-3) Special Topics This course is intended to fulfill requirements for specialized instruction in any of the disciplines represented in the Faculty of Natural Resources and Environmental Studies. Topics will be chosen depending upon student interest and instructor availability, and topic headings will vary from year to year and from section to section.

Preclusions: BIOL 722-3, ENVS 722-3, FSTY 722-3, GEOG 722-3, RRT 722-3

NRES 799-(1-6) Independent Study This course provides a concentration on a particular topic or topics agreed upon by the student and a member of the faculty in the NRES Graduate Program. This course may be repeated to a maximum of 6 credit hours, if the material is substantially different.

Prerequisites: Permission of the Instructor and Chair, NRES Graduate Program Committee

Preclusions: BIOL 799-3, ENVS 799-3, GEOG 799-3, NREM 799-3

NRES 801-3 Integrated Environmental Systems I This course is an interdisciplinary examination of the biological, chemical, and physical processes of ecosystems. Key sciences to be considered include biology, ecology, physics, chemistry, earth sciences, selected social sciences, and recent developments in systems theory, as well as interactions among the sciences. This course will involve a critical examination of the nature and distribution of components within ecosystems, the processes that govern them, and their relevance to environmental systems. Major issues in natural resource management and environmental studies, such as global climate change, will provide the discussion framework for this class.

Prerequisites: Admission into the PhD NRES program

NRES 802-3 Integrated Environmental Systems II This course exposes the student to the major extant theoretical explanations of human use, valuation, appreciation, and perceptions of the natural environment. Included will be overviews of the role of science in society, market and non-market valuation processes with respect to natural resources, attitude formation, aesthetics and perceptual bases, planning and policy implications, and the driving forces in human uses of natural resources. An important component will be an exploration of the major natural resource issues involving environmental ethics and reasoning.

Prerequisites: Admission into the PhD NRES program

NRES 803-3 Integrated Environmental Systems III Students in the graduate cohort work together to formulate an interdisciplinary perspective on their graduate research projects. Supervisors and the supervisory committees guide students in the development of their research proposals, while the NRES 803-3 cohort and instructor provides input, through seminars and discussions, to help the student relate the research thesis to the social and arts, physical, and life sciences of natural resources and the environment.

Prerequisites: NRES 801-3 and NRES 802-3, and admission into the PhD NRES program

NRES 804-3 Graduate Seminar This seminar is geared toward developing "critical thought" and aims to help candidates respond across a broad spectrum of topics. The seminar functions to generate debate on various (frequently contentious) issues, to promote interaction with faculty members and other students across the entire Faculty, and to act as a platform for presentations by the students themselves and invited speakers. Each PhD student is expected to give two 50 minute presentations. One presentation will be on a topic agreed upon by the student and the course coordinator, and the other will be relative to the student's thesis.

Prerequisites: Admission into the PhD NRES program

NRES 890-12 Thesis Research The doctoral thesis must stress original research or an original investigation, interpretation or synthesis of existing research.

NRES 899-(1-3) Independent Research This course allows a student to conduct non-thesis research on topics under the supervision of a member of the faculty in the NRES Graduate Program. This course may be repeated to a maximum of 3 credit hours, if the material is substantially different.

Prerequisites: Permission of the instructor and Chair of the NRES Graduate Program Committee and admission into the PhD NRES Program

Natural Resources Management (NREM)

NREM 607-3 Natural Resources Planning Natural resource management planning processes to include crown land and different lease arrangements as well as private land. Inventory, public involvement, implementation, monitoring, and assessing resource values.

Precluded: NREM 400-3

NREM 608-3 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.

Precluded: NREM 410-4

NREM 613-3 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 agroforestry systems are addressed in the course. Special attention is given to agroforestry research and development in British Columbia. Students are exposed to current modelling techniques used in agroforestry, as well as research opportunities in agroforestry.

Precluded: NREM 413-3

NREM 615-3 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 to assess forest soil properties and management impacts.

Prerequisites: None (FSTY 205-3 or equivalent is recommended)

Precluded: FSTY 315-3 or FSTY 415-3

NREM 616-3 Conservation Planning Conservation planning is concerned with the theory and techniques to improve the scientific basis of conservation decisions and the cost-effectiveness of conservation and management actions. Students learn to apply the basic tools of conservation planning to real and complex conservation problems. These tools include: systematic conservation planning; multi-criteria decision-analysis; and risk assessment.

Precluded: NREM 409-3

NREM 625-3 Soil Formation and Classification Examination of soil formation with emphasis on environmental forces including human activity; distribution and classification of soils in northern and interior British Columbia; correlation of the Canadian system of Soil Classification with international systems such as Soil Taxonomy and FAO/UNESCO Soil Map of the World.

Precluded: FSTY 425-3

See NRES course listing for additional 700-level Natural Resources Management courses.

Nursing (NURS)

NURS 602-3 Pathophysiology This course provides an intensive, comprehensive, evidence-based background for assessment and advanced nursing management of common acute/episodic and chronic illnesses encountered across the life-span in primary health care settings. Normal anatomy and physiology are reviewed and the pathophysiology of selected conditions, diseases or disorders is examined in-depth. Particular attention is given to epidemiological evidence relevant to northern British Columbia.

NURS 603-3 Health Assessment and Diagnostic Reasoning

This course prepares students to perform comprehensive advanced health assessments with clients across the life-span. The integration of interpersonal communication and physical assessment skills with diagnostic reasoning, critical thinking and clinical decision-making in determining differential diagnoses is emphasized. Students learn health assessment and diagnostic reasoning in accordance with Nurse Practitioner professional regulations and within the context of interpersonal practice.

Prerequisites or Co-requisites: NURS 602-3 or permission of the Program Coordinator or Chair, School of Nursing

NURS 604-3 The Healing and Well-being of Indigenous Peoples

This course provides a critical examination of Indigenous healing and well-being in relation to the historical influences of European contact and colonization, government social policy, environmental change, migration, and evolving lifestyles. Traditional and contemporary knowledge, world-views and spirituality, as well as Indigenous approaches to healing and well-being within families and communities are explored.

NURS 605-3 Pharmacological Management and Therapeutic Interventions

This course provides students with the most current advanced knowledge of pharmacology, including pharmacokinetics and pharmacodynamics. Students learn about evidence-based practice in the selection, prescription and monitoring of drugs to treat diseases, disorders, conditions and injuries commonly used in primary health care settings within the BCCNP limits and conditions prescribing and dispensing regulations. Based on client health history, disease, disorder or condition, this course involves in-depth study of the mechanisms of drug actions, therapeutic and adverse effects, drug interactions, and client education. Emphasis is on clinical decision-making applied in case studies that span a variety of age groups and conditions.

Prerequisites: NURS 602-3

NURS 606-3 Developing Nursing Knowledge

This course explores the historical, philosophical and theoretical underpinnings of professional nursing and the evolution and application of nursing knowledge. This course examines the relationships between nursing theory, nursing science and practice. Students examine the core elements of nursing knowledge, the distinct nature of nursing research and the dynamic relationship between theory and practice.

Course Descriptions: NURS

NURS 607-3 Appraising and Synthesizing Evidence for Practice This course provides students with the knowledge and skills to undertake a systematic search of literature, to critically examine and analyze the evidence, and to prepare an integrative or narrative literature review in response to a specific practice question. Students critique qualitative and quantitative research, systematic reviews, evidence-based guidelines, and other relevant sources and explore ways to apply that research and evidence in practice.

NURS 608-3 Ethics, Accountability and Responsibility for Practice This course emphasizes health care ethics and ethical practice as well as the legislative acts, regulations and bylaws of the family nurse practitioner role as it evolves in British Columbia. Implications for those factors on professional responsibility, accountability and practice management are also addressed. The importance of personal responsibility for continued professional development and maintaining family nurse practitioner competence is also emphasized.

NURS 612-3 Women and Health This course examines women's health from a holistic perspective through a feminist lens, with emphasis on social determinants of health. Students use health research evidence and sources from social sciences and humanities to explore women's health experiences as well as specific health concerns across the lifespan.

Precluded: NURS 412-3

NURS 618-3 Research Approaches for Nursing and Health This course introduces a broad overview of research approaches and methods relevant to nursing and health care. Students examine the philosophical and methodological foundations of qualitative, quantitative and mixed methods research and explore the development of research questions and the selection of appropriate methods to address these questions. Topics covered include research design, data collection and analysis principles, ethical and culturally safe research, and approaches to knowledge translation.

NURS 619-3 Qualitative Research in Nursing and Health This course explores various approaches to qualitative research in nursing and health, beginning with the epistemological and ontological commitments. Approaches may include qualitative description, phenomenology, participatory action research, feminist research, grounded theory, and forms of ethnography. Practical concerns encountered in undertaking qualitative research, including issues of ethics and rigour, are explored.

Prerequisites: NURS 618-3

Precluded: EDUC 610-4, GNDR 609-3, HHSC 703-3, and NURS 609-3

NURS 620-3 Quantitative Research in Nursing and Health This course introduces students to a range of quantitative research designs, methods and statistical approaches that are commonly used in nursing practice, nursing education and health care. This course exposes students to methodological tools.

Prerequisites: NURS 618-3

Precluded: NURS 610-3 and SOCW 609-3

NURS 621-3 Health and Global Interconnections This course provides students with opportunities to develop a critical understanding of key issues related to the relevance of health and global interconnections including the following: links between health, social justice and poverty; health disparities and health equity; and gender, diversity and health. Particular attention is given to cross-cutting global health topics such as global health care, geographical health policy, and the effects of significant world events. Students have an opportunity to develop an appreciation of political, social and economic responsibility, global citizenship in health, planetary health, and actions being taken to effectively deal with important global health challenges.

NURS 680-(3-6) Special Topics in Nursing and Health This course addresses topics of current interest in nursing and health, which vary from year to year. With the permission of the Chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

NURS 681-(1-6) Independent Study The details of this course are determined on an individual basis between faculty and graduate students.

NURS 701-6 Advanced Clinical Practice Nursing This course focuses on applied advanced nursing practice within specialist or generalist areas of practice. The course is tailored to each student's specific clinical focus, which could include health care management, interprofessional practice, education, clinical informatics, collaborative social enquiry, Indigenous health care, intercultural practice, or rural nursing. A practicum is required.

Prerequisites: NURS 604-3, NURS 606-3, NURS 607-3

NURS 703-3 Health Program Planning, Community Development and Evaluation This course addresses health program planning, community development, and program evaluation informed by epidemiological and community engagement approaches. Tools and processes for implementation are linked to strategies for continuous quality improvement. Evaluation competencies are examined through an ethical lens to consider how programs can be tailored for context. The contextual focus for this course is on rural, northern, and Indigenous communities.

Major Restriction: Master of Science in Nursing (Thesis or Project Option) or Master of Science in Nursing (Family Nurse Practitioner) students, or permission of the Chair

NURS 704-3 Leadership in Health Care and Practice This course provides a critical examination of selected current issues in health and advanced practice nursing in Canada with a focus on underlying social, political, cultural, historical, legal, and economic factors. This course examines ways in which nurses can influence policy development and foster change in the health system, including how theories of leadership and change can be implemented to ensure quality care, provider and client satisfaction, and equitable distribution of resources in various practice settings.

Precluded: HHSC 602-3 and POLS 603-3

NURS 705-3 Mobilizing Knowledge in Health and Health Care

This course addresses the theory and practice of knowledge translation across the health research spectrum such as biomedical, clinical, population and public health, and health services and policy. In addition to critically examining knowledge exchange and translation theories, students engage in practical approaches to facilitating the exchange of knowledge and the uptake of evidence. Emerging topics in this rapidly changing field are explored.

NURS 720-6 Practicum: Integrating Primary Health Care I

This course enables students to consolidate and practice knowledge and skills in assessing, diagnosing and managing physical and mental health/illness of adults, older adults and their families. The focus is on the management of common episodic and chronic health conditions of individuals across the life-span, within the context of family and community in northern primary health care settings. Emphasis is placed on health promotion and illness/injury prevention strategies and on chronic self-care management. Situations requiring physician referral and managing rapidly changing situations are also addressed. This two-part course, which consists of on-site practice seminars and a clinical practicum, includes a structured clinical evaluation.

Prerequisites: NURS 602-3, NURS 603-3, NURS 605-3, NURS 607-3, NURS 608-3, or permission of the Program Coordinator or Chair, School of Nursing

NURS 730-6 Practicum: Integrating Primary Health Care II

This course enables students to extend their knowledge and practice skills in northern primary health care setting with an emphasis on the development of core family nurse practitioner competencies related to caring for perinatal women, infants, children and adolescents. Emphasis is placed on health promotion and illness/injury prevention strategies and on chronic self-care management. Situations requiring physician referral and managing rapidly changing situations are also addressed. This two-part course, which consists of on-site practice seminars and a clinical practicum, includes a structured clinical evaluation.

Prerequisites: NURS 720-6, or permission of the Program Coordinator or Chair, School of Nursing

NURS 763-(1-6) Field School In this experiential learning course, students are immersed in a specific global health context where they actively engage in developing and applying global health knowledge related to health promotion, social capital and community sustainability. The field school provides opportunities to develop new knowledge, skills, attitudes, reflective approaches, and perspectives through interaction with people and communities from other cultures. It is open to students from all disciplines. This course may be repeated to a maximum of 6 credit hours if the material is substantially different.

Prerequisites: Permission of the Instructor
Precluded: NURS 493-(1-6)

NURS 790-9 Nurse Practitioner Internship This final practicum course, consisting of seminars and concentrated clinical practice, sees students building upon previously acquired family nurse practitioner knowledge and skills. Students undertake autonomous, collaborative primary health care practice, through consolidating their skills and judgment in the assessment, management and care of individuals and families across the life-span. Students collaborate with other health professionals to provide comprehensive care, and begin to take on leadership roles in addressing population health needs, service gaps and the promotion of health in primary health care settings.

Prerequisites: NURS 730-6, or permission of the Program Coordinator or the Chair, School of Nursing

NURS 797-6 MScN Project The project is an original piece of evidence-based and theoretically informed scholarship that addresses a current issue relevant to nursing. The project advances nursing practice, education or leadership through a critical examination that can contribute to decision-making in clinical, ethical, and evidenced-informed health care practice and patient care.

Prerequisites: NURS 604-3, NURS 606-3, NURS 607-3, NURS 618-3, NURS 704-3, and NURS 703-3 or NURS 705-3

NURS 798-3 Nurse Practitioner Project In this course, which spans the final three semesters of the program, students undertake a practice-based project that examines and synthesizes knowledge in a critical area of concern to nurse practitioners. The project is completed under the supervision of a faculty member within the options and guidelines established by the program.

Prerequisites: Permission of the instructor

NURS 799-12 Thesis The thesis is an original, independent research project carried out under the supervision of faculty.

Prerequisites: Completion of course requirements for Master's in Nursing Science

Outdoor Recreation and Tourism Management (ORTM)

ORTM 600-3 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 such as commercial backcountry recreation, and the evaluation of ecological values. Specific focus is given to policies, procedures and practices to protect and manage resource and tourism resources within an integrated management context.

Preclusions: ORTM 400-3

Course Descriptions: ORTM, PHYS

ORTM 603-3 International Dimensions of Recreation and Tourism This course discusses global dimensions and forces in 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 403-3

ORTM 607-3 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: ORTM 407-3

ORTM 608-3 The Psychology of Recreation and Tourism This course examines the factors that shape individual and societal perceptions, experiences, and behaviours in resource recreation and tourism experiences and settings. Current psychological theory and research are employed to examine how the individual transects both social and natural environment settings in the pursuit of resource-based recreation and tourism activities. Concepts used in ORTM are viewed through the lens provided by research in social and environmental psychology, environmental sociology and perceptual geography.

Prerequisites: ORTM 408-3

ORTM 609-3 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 409-3

ORTM 612-3 Issues and Trends in Recreation and Tourism This seminar-based course examines current issues and trends facing the outdoor recreation, conservation and nature-based tourism study areas. Topics normally change each year, based on recent issues and trends in the broad ORTM discipline, and cover content not traditionally included in any meaningful way in other ORTM courses.

Prerequisites: ORTM 412-3

ORTM 633 (1-6) Graduate Field School This graduate level experiential course provides a combination of theoretical and practical skills in the field. The course integrates outdoor recreation, conservation and nature-based tourism perspectives, and may be based in various locations in British Columbia or worldwide. This course may be repeated to a maximum of 6 credit hours.

Physics (PHYS)

PHYS 600-3 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 or equivalent or permission of the instructor

Prerequisite: PHYS 400-3

PHYS 604-3 Solid State Physics Physics of the solid state of matter. Covers: theories of metals, crystal lattices, reciprocal lattice, periodic potentials, electron dynamics, band structure, conduction in metals, phonons in metals, semiconductors, diamagnetism and paramagnetism, superconductivity.

Prerequisites: PHYS 302-3 or equivalent or permission of the instructor

Prerequisite: PHYS 404-3

PHYS 606-3 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 302-3 or equivalent or permission of the instructor

Prerequisite: PHYS 406-3

PHYS 607-3 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 302-3 or equivalent or permission of the instructor

Prerequisite: PHYS 407-3

PHYS 609-3 Mathematical Methods in Physics This course is a survey of 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

Prerequisite: PHYS 409-3, MATH 409-3

PHYS 710-3 Advanced Quantum Mechanics Review of quantum mechanics including operators, linear vector spaces, Dirac notation; density operator; angular momentum; spin; and rotation groups; addition of angular momentum; symmetries and conservation laws; identical particles; time-dependent and time-independent perturbation theory; scattering theory; interaction of radiation with matter; introduction to relativistic quantum mechanics; special topics.

Prerequisites: Permission of the Chair/Instructor

PHYS 720-3 Condensed Matter Physics Theory and application of solid state physics to macroscopic and microscopic phenomena in materials. Topics to be chosen from the following: review of crystal lattices, unit cells, reciprocal lattice, Bloch theorem; free and nearly free electron models, tight binding model; band structure and Fermi surfaces, electron dynamics, scattering; metals, semiconductors and insulators; phonons, phonon bandstructure, scattering; diamagnetism, paramagnetism, ferromagnetism, magnetic ordering and scattering; heterostructures, quantum Hall effect; topics in surface physics (surface states, work function, reconstruction); topics in superconductivity (Type I & Type II, flux quantization, Josephson Effect, BCS Theory, high-temperature superconductivity).

Prerequisites: Permission of the Chair/Instructor

PHYS 730-3 Advanced Nuclear Physics Topics to be chosen from the following: properties of nuclei, the nuclear force and the two-nucleon system; nuclear structure; nuclear models; the collective model; many-body basis states; Hartree-Fock Hamiltonian; spherical and deformed shell model; nuclear excitation and the electromagnetic transition; weak interaction and beta-decay; alpha decay; nuclear fission; thermonuclear fusion; nuclear reactions; compound nucleus formation; direct reactions; the optical model; intermediate energy nucleon-induced reactions; electron- and photon-induced reactions; meson-nucleon and meson-nucleus reactions; heavy-ion reactions.

Prerequisites: Permission of the Chair/Instructor

PHYS 740-3 Elementary Particle Physics Topics to be chosen from the following: quarks, leptons and the standard model; symmetries and conservation laws; Dirac equation and the Dirac field; gauge invariance and gauge theories — Quantum Electrodynamics; phenomenology of hadronic interactions, strong interaction, SU(3), and the quark model; other quark flavours — charm and beauty; principles of Quantum Chromodynamics; the weak interaction and parity non-conservation, invariance under CP and T; the heavy gauge bosons and the electro-weak theory; CP-violation; grand unification, supersymmetry; superstrings, particle physics and cosmology.

Prerequisites: Permission of the Chair/Instructor

PHYS 798-3 Advanced Topics in Physics This course covers topics of current interest in physics research, which vary from year to year.

Prerequisites: Permission of the Chair/Instructor

Political Science (POLS)

POLS 600-3 Classics in Political Philosophy This course provides a close analysis of a classic treatise in political philosophy. Texts vary yearly. With permission of the chair, this course may be repeated for a maximum of 6 credit hours if the material is substantially different.

POLS 601-3 Resource Politics This course examines the roles which natural resources and the environment have come to play within the contemporary political system. Emphasis on Canada and British Columbia.

Precluded: POLS 401-3

POLS 603-3 Social and Health Policy in the Context of Health and Health Care This course examines the evolution of social and health services in Canada in a comparative context and encourages students to think broadly about health care, taking into account the social, political, cultural, historical and economic factors that affect health and health policy. Students critically examine the impact of global, national, provincial and local influences on the delivery of health care and on the enactment of advanced practice. Students use concepts of public policy and policy analysis to analyze policies that are relevant to professional practice and health care and to be equipped to engage in policy debates and to influence health policy.

Precluded: POLS 403-3

POLS 605-3 Topics in Society and Democracy This course is an analysis of the challenges of political, economic and social transition. With permission of the chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

POLS 606-3 Political Change in the Asia-Pacific Region This course offers a comparative analysis of the strategies of political and economic development and social change in selected countries in the Asia-Pacific region.

POLS 608-3 Business-Government Relations Government and politics together make up one of the most important variables that business faces in a modern economy. Problems examined include the regulatory process, tax policy administration, labour relations law, lobby practices, and local building codes. These questions and others relating to the appropriate role of the modern state in the economy constitute the major concerns of this course.

Precluded: POLS 408-3

POLS 612-3 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.

Precluded: POLS 412-3

Course Descriptions: POLS

POLS 613-3 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.

Precluded: POLS 413-3

POLS 614-3 Comparative Federalism A comparative examination of the theories, development, and problems of federalism in countries such as Russia, Canada, Germany, United States, Australia and Switzerland.

Precluded: POLS 414-3

POLS 615-3 Comparative Northern Development An examination of the strategies and challenges of northern development, including political administration, resource development, the environment and indigenous peoples in Russia, Scandinavia, Alaska and Canada.

Precluded: POLS 415-3

POLS 617-3 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. In addition to providing students with grounding in mainstream theories of leadership, this course focuses on case-based material and evaluates models of successful leadership in both the public and private sector.

Precluded: POLS 417-3

POLS 627-3 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.

Precluded: POLS 427-3

POLS 634-3 Resource Communities in Transition An examination of 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 issue of urban policy decision processes on rural, remote and northern regions.

Precluded: POLS 434-3, POLS 601-3

POLS 672-3 Seminar in Political Philosophy This seminar guides students through the process of conducting a research project in political philosophy. Topics are chosen according to students' interests. With permission of the chair, this course may be repeated for a maximum of 6 credit hours if the material is substantially different.

POLS 680-3 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.

Precluded: POLS 480-3

POLS 698-3 Special Topics in Political Science This course provides students with in-depth knowledge of a specialized topic in political science. With permission of the chair, this course may be repeated for credit if the subject matter is substantially different.

Prerequisites: Permission of the instructor

POLS 702-3 Scope and Methods of Political Science A graduate seminar which examines major considerations in doing quantitative and qualitative methods of social research and explores critical, theoretical, and other methodological issues in the discipline.

POLS 704-3 Independent Study The content of this course is determined on a case-by-case basis. With permission of the chair, this course may be repeated to a maximum of 6 credit hours if the material is substantially different.

POLS 795-3 Major Research Paper This course is intended for students in the Political Science Master's degree program who have chosen the course-based option. The content of the course is determined by the student's graduate supervisor, who oversees the student's research and grades the final paper. It is normally the final course in the student's program of studies.

POLS 797-9 Graduate Project The Graduate Project is a requirement for students choosing the MA Project Option. Students will prepare a 12,000 - 15,000 word research paper, under the direction of a supervisor from Political Science. The project will contain a thorough review of the existing literature, a detailed bibliography, and will demonstrate clear evidence of critical thinking. A project proposal, and the final research paper, will be assessed by a graduate committee, comprising the supervisor, one other member from Political Science, and one member from outside the program.

POLS 799-12 Master's Thesis The MA thesis should pose and attempt to deal with a significant public question in a way that demonstrates critical thinking, an understanding of the relevant literature, and the ability to conduct systematic research. This should be accomplished within the limits of 20,000 - 25,000 words. In preparation for the thesis, a research proposal is to be drafted (in consultation with the faculty) and submitted for discussion and approval to a committee of three persons appointed by the Program Chair.

Psychology (PSYC)

PSYC 600-4 Univariate Statistics The course emphasizes linear statistical models involving one dependent variable. The laboratory component of the course focuses on the use of a statistical package to analyze data.

Prerequisites: an undergraduate course in data analysis or permission of the instructor

PSYC 605-4 Multivariate Statistics The course emphasizes statistical models involving multiple dependent variables. The laboratory component of the course focuses on the use of a statistical package to analyze data.

Prerequisites: PSYC 600-4 or equivalent

PSYC 607-3 Social Psychology This course examines advanced issues and current research in the study of social behaviour. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

Precluded: PSYC 615-3

PSYC 608-3 Psychology and Environmental Conservation This course examines factors within and outside the individual that give rise to unsustainable lifestyles and examine approaches to environmental conservation that take human psychology and well-being into consideration. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

PSYC 609-3 Health Psychology This course examines advanced issues in the field of health psychology. Topics may include the following: the intricate relationship between psychological and physical health; and their determinants; such as cognitive processes; life-style; and health-related behaviours. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

Precluded: PSYC 620-3

PSYC 611-3 Developmental Psychology This course examines advanced issues and current research in human development from infancy through adulthood. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

Precluded: PSYC 645-3

PSYC 618-3 Sensation and Perception This course examines advanced issues in the study of perception and action. Building on an understanding of fundamental neural science, topics may include the mechanisms of perception and the manner in which perceptual processes are integrated with other psychological processes, such as memory and problem solving. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

PSYC 621-3 Biopsychology This course provides a research oriented examination of contemporary topics in biological psychology. Topics may include neural plasticity, behavioral epigenetics, neuroendocrinology, neuroimmunology and the gut-brain connection. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

PSYC 622-3 Positive Psychology This course provides advanced study of topics and issues in positive psychology, with an emphasis on how individuals flourish and make meaning through desirable and undesirable experiences. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

PSYC 627-3 Cross-cultural Psychology This course examines cross-cultural psychology through the study of people's beliefs, attitudes and behaviours in cross-cultural contexts. Representative research on major theories in the field are studied. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

PSYC 631-3 Psychopathology This course examines historical and current approaches to the study of behaviour disorders and problems of life adjustment, including critical evaluation of empirical findings in selected areas. Classification systems, including the current revision of the APA Diagnostic and Statistical Manual, are critically reviewed.

PSYC 632-3 Cognition This course examines advanced issues in research and theories of human mental processes and the psychological and neuroscientific methods used to study them. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

Precluded: PSYC 635-3

PSYC 685-3 Current Methods in Psychological Research This course examines advanced theories and behavioural and neuroscientific methods applied to areas of emerging interest in psychology. If the undergraduate equivalent of this course has been successfully completed, this course may only be taken for credit at the graduate level with permission of the Chair.

PSYC 690-12 Master's Thesis An original, empirical research project.

Course Descriptions: PSYC, SOCW

PSYC 800-3 Graduate Seminar The graduate seminar is geared toward developing critical thinking skills and aims to help students evaluate a broad spectrum of topics. The seminar functions to generate debate on key issues, promote interaction with faculty members and other students in the program, and to act as a context for presentations by the students. Each student is expected to give, in a manner acceptable for a national or international conference presentation, one presentation in each semester of enrollment.

PSYC 810-3 Cognitive Neuroscience This course provides exposure to major and emergent issues in the study of brain and behaviour relationships. The focus of the course is on the theoretical and physiological basis of neuropsychological processes.

Precluded: PSYC 610-3

PSYC 812-3 Independent Research Allows a PhD student to conduct research under the supervision of a faculty member.

PSYC 815-3 Social Psychology This course offers an advanced study of social psychology and social cognition. The course provides exposure to major current issues in the study of social behaviour. Topics of special relevance to the social problems of the north are considered.

Precluded: PSYC 615-3

PSYC 820-3 Health Psychology This is an advanced seminar in health psychology dealing with such areas as psychosocial epidemiology, stress and its management, social factors and health, behavioural risk factors for chronic disease and disability, and intervention programs based on behavioural change.

Precluded: PSYC 620-3

PSYC 825-3 Cognitive Neuropsychological Assessment This course provides exposure to the assessment of cognitive neuropsychological functioning. Emphasis is placed on providing practical hands-on experience in the administration and scoring of commonly used tests of mental status, depression, achievement, memory, and/or intelligence. Also included is an introduction to fundamental measurement concepts and ethics.

Prerequisites: Permission of the instructor

Precluded: PSYC 625-3, PSYC 725-3

PSYC 826-3 Personality Assessment This course provides exposure to standardized procedures for the evaluation of personality. Emphasis is placed on administration, scoring, and interpretation of objective tests of personality. Also included is an overview of the history and theories of personality assessment, psychometrics, responsible test use, and current controversies.

Precluded: PSYC 625-3, PSYC 726-3

PSYC 830-3 Psychological Interventions This is an advanced seminar on the application of psychological procedures to the change of human social, emotional, behavioural and personality functioning.

Precluded: PSYC 630-3, PSYC 730-3

PSYC 835-3 Cognition and Learning This course provides an advanced study of cognition and cognitive processes.

Precluded: PSYC 635-3

PSYC 845-3 Developmental Psychology This course provides an advanced study of human development from infancy through adulthood.

Precluded: PSYC 645-3

PSYC 850-(3-6) Special Topics in Advanced Psychology This course provides an advanced study in specific substantive areas. Topics may include aging, communication theory, cross-cultural issues, emotion, gender, and health promotion, history and systems. The topic area is noted on the transcript.

Precluded: PSYC 650-3, PSYC 750-(3-6)

PSYC 860-(3-6) Research Practicum The research practicum focuses on the acquisition of technical skills and practical research experience. PhD students are expected to demonstrate the use of experimental methods consistent with their career goals. They have the opportunity to develop and demonstrate their skills in individual research laboratories in psychology.

Prerequisites: enrollment in PhD program and permission of the instructor

PSYC 870-(3-6) Fieldwork Practicum This course provides supervised exposure to applied psychology practice. It includes observation of applied psychology, supervised practice of assessment and/or intervention techniques, participation in case supervision, and attendance at case conferences.

Prerequisite: Permission of the instructor

Preclusion: PSYC 770-(3-6)

PSYC 890-12 PhD Dissertation An original, empirical research project.

Social Work (SOCW)

SOCW 600-3 Social Work and Community Data Analysis This course uses the Social Administration framework of the MSW program. Students will be introduced to existing databases and will be taught a wide range of computer applications and software packages that are particularly useful in community-based social work practice, policy and advocacy in northern regions and communities. This course extends throughout the MSW year and will also integrate qualitative and participatory research approaches.

SOCW 601-3 Current Issues in Northern/Remote Social Work This course unravels, explores and analyzes the linkages between community issues, personal presenting problems, and global, national and regional historical, economic and social developments. It focuses on public issues and personal problems as they affect different demographic groups and Indigenous populations that live in the central and interior of British Columbia. This course examines the formulation of changes in social work practice and policy that give a greater voice to the consumers of welfare and the social and personal services of the welfare state.

SOCW 602-3 Indigenous Peoples: Advanced Social Work Practice

This course investigates conceptual, policy and practice issues that help professionals in the human services develop an appropriate role for social work in Indigenous cultures. Government and legal processes, values, economic factors, policies and practices are examined. The course examines issues such as racism, the position of women and children in relation to reserve, town and city life, autonomy, integration, underdevelopment and the transfer of social services to Indigenous peoples.

SOCW 603-3 Women: Policy/Practice Issues

This interdisciplinary course explores the historical nature of the role of women and women's struggles in Canada with particular focus on the role of women in northern, remote and Indigenous communities. The exploration also includes a review of feminist perspectives and the meaning and application of feminist practice for social work in the areas of policy, research, counselling and direct service. While gender relations are the focus, they are analyzed as they intersect with issues such as race, class, ability, sexual orientation, and aging.

SOCW 604-3 Directed Readings

Directed Readings enables students to undertake an independent reading course in an area that fits a chosen MSW research/policy/practice concentration. Students may take a maximum of one Directed Readings course.

SOCW 605-3 Community Work/Politics of Change

Community Work and the Politics of Change is based on theories of social change and interactive problem solving skills with groups and communities is the main focus of this course. Critical analysis of selected field experiences will be examined in relation to the values of participatory democracy, co-operation, empowerment, mutual aid and a social justice vision of genuine community. Issues to be examined include developing grass roots leadership, valuing undervalued persons and building a community culture of hope. The methods of popular education, participatory action research and other forms of qualitative research directed to the politics of change will be examined.

SOCW 609-3 Advanced Quantitative Research

Advanced Quantitative Research in Social Policy and Social Work Practice covers a range of quantitative methods, research designs, statistical analyses and measures. The course explores social policy and social work issues in comparative, national and provincial contexts and links measures, methods and analyses to current issues and debates in social work policy and practice. The course prepares students with the research tools necessary to undertake their thesis and/or practicum projects.

Prerequisite: MSW Foundation Year students must successfully complete SOCW 634-3

SOCW 610-3 Wellness: Alternate Approaches

This course introduces and explores a variety of techniques in expressive arts, movement and process-oriented therapeutic approaches in working with individuals, couples, families and groups. Themes and exercises focus on addictive behaviours, mental health and wellness. Exercises are interwoven throughout the course. These incorporate the materials taught and provide students with the opportunity to practice the different techniques examined in this course.

SOCW 613-3 Clinical Social Work Practice

Critical analysis of psychotherapy and counselling, particularly by women and ethnic/racial minorities has had an influence on how psychotherapy is organized and how values are expressed. Psychotherapy and counselling have also been influenced by the reality of restructuring in health care, education and social services. Social workers have been faced with the challenge of delivering service in environments that are increasingly restrictive. These developments have encouraged the implementation of new therapeutic approaches which emphasize brevity, respect for clients, client strength and collaborative approaches to problem solving. This course explores clinical practice within this context with emphasis on issues that pertain to northern British Columbia. The course requires critical analysis as well as practice skills.

SOCW 615-3 Multi-Cultural Social Work Practice

Social Work Practice In a Multi-Cultural Context is to prepare students for work with various ethnic and racial minority clientele. Topics include: the impact of formal and informal social policies and institutions on the well-being of minorities; the relationship between cultural norms and social work practice. Opportunities for experiential learning in the classroom and community settings allow students to interact with selected cultural groups.

SOCW 630-3 Communication Skills

This is an introductory course that aims to increase skills and analysis in the diverse cultural settings that are appropriate to social work among Indigenous peoples 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. This course emphasizes the integration of interpersonal and analytical skills. Students learn 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: Admission to the MSW Program Foundation Year

SOCW 631-3 Critical Social Work Practice

This course critically examines the historical origins, value, methods and applications of various social work practice approaches. With an emphasis on structural, feminist, and Indigenous social work strategies, the course includes the application of these approaches to women, minority groups, Indigenous peoples and residents of northern and remote communities. These approaches are contrasted with other models of social work practice including general systems theory, ecological theory, and case management.

Prerequisites: Admission to the MSW Program Foundation Year

SOCW 632-9 MSW Practicum I

This field placement introduces MSW students who do not have a BSW to the social work role and organizational settings. The field placement consists of 450 hours and provides students with an opportunity to enhance and refine their generalist social work skills. The focus of the placement is on the development of generalist skills, however, where possible, students are matched to a placement that broadly meets their area of interest.

Prerequisites: Admission to the MSW Program Foundation Year
Co-requisites: SOCW 637-3

Course Descriptions: SOCW

SOCW 633-3 Critical Social Policy This course examines the development of social policy in Canada, including current debates from conventional and critical perspectives, and invites students to consider the relationship between research, policy and social work practice. The course reviews ideologies of social welfare policy, its formulation and implementation and consequences for people in need. Policy formulation is 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 are explored.

Prerequisites: Admission to the MSW Program Foundation Year

SOCW 634-3 Social Work Research/Policy/Practice This course 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 are linked to substantive policy and practice issues that reflect the economic, social and personal circumstances of people and communities in northern, remote and Indigenous communities.

Prerequisites: Admission to the MSW Program Foundation Year

SOCW 635-3 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 Social Work Code 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: Admission to the MSW Program Foundation Year

SOCW 637-3 Advanced Practice This course is designed for graduate students who have worked in social work practice settings but who do not have formal social work training. The historical and cultural development of social work practice models is surveyed with emphasis on contemporary models of practice such as constructivism, anti-oppressive practice, feminist practice, Indigenous practice approaches and structural practice. Key components of practice such as assessment, intervention planning, advocacy, organizing, recording, confidentiality, evaluation, case management, interdisciplinarity and termination are studied.

Prerequisites: Admission to the MSW Program Foundation Year

Co-requisites: SOCW 632-9

Precluded: SOCW 636-3

SOCW 640-3 Social Work Supervision and Leadership This course examines leadership and supervision from a social work perspective and it also draws on interdisciplinary knowledge from related fields of practice in health, education, business, and human services. The course emphasizes social justice and the effective and responsible use of human and material resources. Components of supervision and leadership such as administration, support, education, clinical supervision, performance management, recruitment and retention of employees, organizational context, interdisciplinary practices, and problem solving are addressed in this course. The course also encourages the development of styles of leadership and supervision that are respectful and anti-oppressive in nature.

SOCW 670-3 Indigenous Peoples in Canada: Past/Present/Future This course examines the history of Indigenous peoples in Canada its and current and future impacts on Indigenous children and youth. A particular focus is on the importance and knowledge of traditional family systems, parental attachment and evolving methods and practices. Discussions also include managing personal issues in professional practice, self-care and the intersection of Indigenous and Western frameworks for physical and mental health.

Prerequisites: BSW, Bachelor of Child & Youth Care or other bachelor-level degree subject to Chair approval

SOCW 671-3 Reflections on Practice: Indigenous Children/Youth Mental Health This course provides an opportunity to reflect on practice. The course surveys the historical and cultural development of social work practice, emphasizing contemporary models such as anti-oppressive practice, constructivism and feminist practice. The students study assessment, intervention, planning, advocacy, organizing, recording, confidentiality, evaluation, case management, interdisciplinary environments, and termination.

Prerequisites: BSW, Bachelor of Child & Youth Care or other bachelor-level degree subject to Chair approval

SOCW 672-3 Social Work/Counselling Skills with Indigenous Children/Youth This course examines practice and intervention skills for working with Indigenous children and youth. Topics include: basic issues of child development; communication skills that are effective in working with younger people; and specific therapeutic assessments and interventions. The importance of balancing the relationship between Western and traditional treatment and intervention approaches is also explored.

Prerequisites: BSW, Bachelor of Child & Youth Care or other bachelor-level degree subject to Chair approval

SOCW 673-3 Mental Health and Addictions among Indigenous Children/Youth This course focuses on common types of mental illness with an overview of substance misuse and addictions. Students are introduced to structural elements impacting mental health such as poverty, racism, and isolation, in addition to biological, traumatic, attachment, and familial factors. Epidemiological and etiological related mental illness among Indigenous children and youth is examined. Pharmacological interventions are considered.

Prerequisites: BSW, Bachelor of Child & Youth Care or other bachelor-level degree subject to Chair approval

SOCW 674-3 Crisis Work with Indigenous Children/Youth: Restoring Balance This course examines the nature and types of crisis situations faced by children and youth, with special attention to Indigenous children and youth. Basic crisis intervention skills aimed at the restoration of balance are identified. There is a particular focus on suicide including assessment of suicide lethality, intervention skills, skills for working with survivors, cluster suicide and suicide epidemics, and prevention work. The course addresses other trauma or crisis work, critical incident debriefing with children and youth and individual, family and community risk and protective factors.

Prerequisites: BSW, Bachelor of Child & Youth Care or other bachelor-level degree subject to Chair approval

SOCW 675-3 Community-Based Prevention with Indigenous Peoples: Creation Balance

This course examines community-based prevention strategies and risk reduction as it applies to child and youth mental health and highlights the role and restoration of traditional activities that promote wellness for Indigenous children and youth. Interventions and practical application of prevention strategies in relation to suicide, parenting, disability, and other issues are addressed. The course emphasizes approaches to identifying and building on existing community programs and community strengths.

Prerequisites: BSW, Bachelor of Child & Youth Care or other bachelor-level degree subject to Chair approval

SOCW 698-3 Special Topics This course number designation will be available to permit faculty to offer courses in areas of specialization.

Prerequisites: Graduate standing

SOCW 700-12 MSW Thesis Students taking this route will register for a thesis leading to a written report of high academic quality that demonstrates mastery of the field specified and an ability to undertake research. The thesis may be based on research about models of advanced practice, policy and/or evaluation in the thematic areas of the MSW program.

SOCW 701-3 Research Practicum This course is a research-based practicum that provides students with the opportunity to enhance and refine their research skills. It normally takes place two days per week over one semester. This elective is available to both practicum and thesis route students.

Prerequisites: Admission to the MSW program

SOCW 704-3 MSW Integrative Seminar MSW Thesis/Practicum/Project Proposal Development/Integrative Seminar has two dimensions. One is the focus on the relationship between theory, ideology, policy and practice in the study of social welfare. Its objective is to enable students to acquire, develop and apply analytical approaches to the social policy. The second dimension focuses on the development of thesis/practicum/project proposals. Students are encouraged to use theoretical approaches in the formulation of the MSW research for thesis, practicum and project. It examines the steps used in the development of thesis, practicum and project proposals. It gives the students an opportunity to present their proposals and thesis/practicum/project plans with other students and faculty.

SOCW 732-9 MSW Practicum II This field placement requires students to perform in a social work role or organizational setting. Field education provides students with an opportunity to enhance and refine their social work skills and focus on an area of particular interest. Students normally are placed in an agency or organizational setting that matches their specific learning needs.

Prerequisites: Admission to the MSW program

Statistics (STAT)

STAT 671-3 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.

Prcluded: MATH 471-3, MATH 499-3 Regression, MATH 671-3, STAT 471-3

STAT 672-3 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, cost-effective design, analysis and control of sources of sampling and non-sampling error, ratio estimation, model-based regression estimation, resampling, and replication methods.

Prcluded: MATH 472-3, MATH 499-3 Design of Sample Surveys, MATH 672-3, STAT 472-3

STAT 673-3 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.

Prcluded: MATH 473-3, MATH 499-3 Design of Experiments, MATH 673-3, STAT 473-3

STAT 675-3 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.

Prcluded: MATH 475-3, MATH 499-3 Applied Multivariate Analysis, MATH 675-5, STAT 475-3

STAT 699-(1-3) Special Topics in Statistics The topic for this course varies, depending on student interest and faculty availability. This course may be taken any number of times provided all the topics are distinct.

Prerequisites: Permission of instructor

Course Descriptions: STAT, VRES

STAT 704-1.5 Seminar in Statistics This course comprises seminar sessions relating to applications or the theory of statistics, or both. Students investigate and present ideas and results pertaining to current research. The offerings may include presentations of current literature, statistical methodology, and topics related to the student's own research or project work or that of others. Students participate in discussions and critiques of their and others' presentations. This is a PASS/FAIL course. This course may be repeated to a maximum of 3 credit hours. Student must attend and participate in all seminar session to obtain credit for the course.

Prerequisites: Permission of instructor

STAT 731-(1-6) Advanced Topics in Statistics This course is intended to fulfill requirements for specialized instruction in the discipline of Statistics. Topics are chosen depending upon student interest and faculty availability, and topic headings vary from year to year and from section to section. This course may be taken any number of times provided all the topics are distinct.

Prerequisites: Permission of instructor

Visiting Research Student (VRES)

VRES 950-0 Visiting Research Student: Graduate All graduate Visiting Research Students who are at UNBC under the Canadian Graduate Student Research Mobility Agreement or other approved graduate student research agreements must register in this course. This course may be repeated but degree program requirements may limit the number of times students may take external courses and apply them to a degree. Current UNBC graduate students are not eligible to register for this course.

VRES 951-0 Visiting Research Student: Western Dean's Agreement All outgoing graduate students under the Western Dean's Agreement must register in this course. This course may be repeated but degree program requirements may limit the number of times students may take external courses and apply them to a degree.

VRES 952-0 Visiting Research Student: Canadian University Graduate Transfer Agreement All outgoing graduate students under the Canadian University Graduate Transfer Agreement (CUGTA) must register in this course. This course may be repeated but degree program requirements may limit the number of times students may take external courses and apply them to a degree.

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