

## Additional Criteria

In addition to meeting all academic admission requirements, applicants must meet the following criteria:

- Physical – Applicants must hold an unrestricted Class I Aviation Medical issued by Transport Canada valid as of September 1 for the Fall Semester to which they are applying and must continue to hold a Class I Medical for the entire period of their training. Applicants should be aware that the major airlines may have vision restrictions that are more stringent than the basic Transport Canada requirements.
- Private Pilot's License – Applicants must possess an unrestricted Canadian Private Pilot's License by September 1 for the Fall Semester to which they are applying. Possession of a Private Pilot's License is not essential prior to being accepted.

## SPECIAL PROGRAM FEES

In addition to regular tuition and general fees, flight training fees are approximately \$45,000 for a student in the two-year Aviation Diploma. A Private Pilot License (cost approximately \$11,000) must be completed prior to entering the Diploma program. Students will be required to make a substantial deposit at the beginning of each semester and maintain a minimum balance of \$500 at all times. Deposits can be paid using Visa or MasterCard via [www.MyMRU.ca](http://www.MyMRU.ca) or to the Student Fees Office (A102). Flight training fees are subject to change depending on operating costs for aircraft and related services.

## FINANCIAL ASSISTANCE

Due to the cost of this program, students may be eligible for the maximum Canada Student Loan and Government of Alberta Loan. Please refer to the section on *Financial Aid* for further information.

Advance savings to complement the loan funds are essential. All fees for the program are to be paid to Mount Royal University.

## CONTINUANCE IN THE PROGRAM

In addition to the general graduation requirements students must achieve the following:

1. A minimum grade of "C" is required in all Air Flight Training (AIRF) courses.
2. Continuing satisfactory progress is required in flight training.
3. Before beginning specific training for a rating for flight test, students will be required to demonstrate that they have met the prerequisites and have sufficient funds to complete that portion of the training.

## OPERATIONAL PROCEDURES

Mount Royal University Aviation operational procedures are outlined in the Student Information Manual, the Company Operating Procedures and other manuals produced by the department. Students are required to make themselves familiar with these documents and all of the policies and procedures contained therein. In exceptional and legitimate circumstances, extensions or exemptions may be granted by the CFI or Program Chair. Procedures for applying for an exception or exemption are available from either the CFI of the Program Chair.

## FLIGHT TRAINING REQUIREMENTS

1. All published syllabus flights must be completed in Mount Royal University aircraft under the supervision of Mount Royal University instructors\*
2. Students must complete all of the published syllabus flights and simulator training for Year 1 by the end of the first year.
3. Students must complete all of the published syllabus flights and simulator training for Years 1 and 2 in order to graduate.
4. Students must successfully complete the following Transport Canada requirements in order to graduate:

- Commercial Pilot License
- Night Rating
- Multi-Engine Rating
- Group I Instrument Rating

\* The only exception to number 1 is that students who are admitted to the program with complete advanced training (Night Rating or ME). They may receive credit at the discretion of the CFI for that training.

\* Students should be aware that Transport Canada requires that all of the licensing requirements for the Commercial License must be completed within one year of the date of the flight test. As a result, it is the students' responsibility to ensure that the timing of their flight test is planned accordingly, in order to ensure they will not have to retake the flight test.

\*\* Students should also be aware that they require 50hrs Pilot-in-command Cross-Country experience prior to commencing the multi-engine/instrument (MI) phase of training. As a result, students should have completed a sufficient number of Navigation exercises to ensure this requirement is met in a timely manner prior to beginning the MI training.

## CURRICULUM

### Diploma – Aviation

#### Year One

- General Education Requirement Foundation Level Cluster 4
- AIRF 1109 – Aviation Meteorology (Introductory)
- AIRF 1130 – Aircraft Engines
- AIRF 1101 – Introduction to Aviation Navigation
- GEOG 1101 – The Physical Environment
- AIRF 2111 – Aeronautics and Flight Operations
- AIRF 2209 – Aviation Meteorology (Advanced)
- AIRF 2101 – Aviation History and Air Law
- MGMT 2130 – Principles and Practice of Management
- GEOG 1105 – Introduction to Mapping and GIS

#### Year Two

- AIRF 3202 – Multi-Engine Instrument Rating
- MATH 2505 – Puzzling Adventures in Mathematics
- LSCM 2201 – Introduction to Logistics and Supply Chain
- General Education Requirement
- General Education Requirement
- AIRF 3206 – Advanced Aircraft Operations, GPS and Crew Coordination
- LSCM 3301 – Introduction to Transportation
- Air Flight Training 3210 – Aircraft Systems
- Air Flight Training 3242 – Human Factors and Aviation Safety
- Physical Education 2410 – Wilderness Survival Techniques
- General Education Requirement

## GRADUATION REQUIREMENTS

- Minimum overall Grade Point Average of 2.00 on all courses included in the program.
- A minimum grade of "C" is required in all Air Flight Training courses.

Please consult the University Calendar for information concerning the University's General Education requirement.

## RESIDENCY REQUIREMENTS

A minimum of 50% of the course requirements for the degree must be completed as a registered student of Mount Royal.

## GRADUATION REQUIREMENTS

- Successful completion of the total required credits and courses for graduation as listed
- Minimum overall grade point average of 2.0 on all courses included in the program
- Successful completion of two non-credit internships and the non-credit internship preparation seminar.
- Minimum grade of "C" in all courses, (Although a maximum of two elective or general education courses may be accepted with a passing grade of less than a "C".)

**Note:** For course descriptions refer to:

Bachelor of Communication – Public Relations:

<http://www.mtroyal.ca/communicationstudies/prelations/curriculum.shtml>

## STUDENT CONDUCT

Public relations students are expected to adhere to the Code of Student Conduct as outlined for all students at Mount Royal. As well, students will learn and be held accountable for knowing and adhering to the Canadian Public Relations Society's Code of Professional Standards. Any deliberate breaches to either Code, such as academic dishonesty, will incur consequences as outlined in the Mount Royal Code of Student Conduct.

## CURRICULUM

### Bachelor of Communication – Public Relations

**Note:** Courses in *Italics* are under development

Year 1	Credits
Communications 1841 – Introduction to Public Relations . . . . .	3
Communications 1845 – Interpersonal Communication . . . . .	3
Communications 1849 – Applied Writing I for Public Relations . . . . .	3
Communications 2500 – Introduction to Communication Studies . . . . .	3
Communications 2803 – Applied Visual Communication for Public Relations . . . . .	3
Computer Science 1205 – Introduction to Computing for Applied Communications . . . . .	3
General Education Requirement Foundation Level, Cluster 1 . . . . .	3
General Education Requirement Foundation Level, Cluster 2 . . . . .	3
General Education Requirement Foundation Level, Cluster 3 . . . . .	3
General Education Requirement Foundation Level, Cluster 4 . . . . .	3
<b>Total Credits</b>	<b>30</b>
Year 2	Credits
Communications 2501 – Media History and Contemporary Issues . . . . .	3
<b>Communications 2849 – Applied Writing II for Public Relations . . . . .</b>	<b>3</b>
Communications 3841 – Media Relations . . . . .	3
Communications 3843 – Communication and Organizational Culture . . . . .	3
Management 2131 – Introduction to Business Administration . . . . .	3
Marketing 2150 – Principles of Marketing . . . . .	3
General Education Requirement Level 2, Cluster 1 . . . . .	3
General Education Requirement Level 2, Cluster 2 . . . . .	3
General Education Requirement Level 2, Cluster 3 . . . . .	3
Elective . . . . .	3
<b>Total Credits</b>	<b>30</b>

Year 3	Credits
Communications 3500 – Media, Culture and Communication Theory . . . . .	3
Communications 3847 – Public Relations Management . . . . .	3
Communications 3851 – Computer Mediated Communication . . . . .	3
Communications 3855 – Research Methods for Public Relations . . . . .	3
Communications 3860 – Government Public Relations . . . . .	3
Communications 1700 – Journalism in Society <b>or</b> <i>Communications 1661 – Technical Writing I</i> <b>or</b> Communications 3670 – Project and Content Management . . . . .	3
Communications 4890 – Public Relations Workplace Issues and Preparation Seminar . . . . .	0
General Education Requirement Level 2, Cluster 4 . . . . .	3
General Education Requirement Level 3 . . . . .	3
General Education Requirement Level 3 . . . . .	3
Elective . . . . .	3
<b>Total Credits</b>	<b>30</b>

Spring/Summer	Credits
Communications 4891 – Public Relations Work Experience I (non-credit required)	
Year 4	Credits
Communications 4501 – Roles and Practices in Contemporary Communication . . . . .	3
Communications 4841 – Strategic Communication Planning . . . . .	3
Communications 4847 – Intercultural and International Public Relations . . . . .	3
Communications 4845 – Investor Relations <b>or</b> Communications 4849 – Fund Development and Corporate Philanthropy . . . . .	3
Communications 4851 – Issues and Ethics in Public Relations . . . . .	3
Communications 4860 – Issue Management, Risk and Crisis Communication . . . . .	3
Public Relations Internship 2 (Winter Semester) (non-credit)	
General Education Requirement Level 3 . . . . .	3
General Education Requirement Level 3 . . . . .	3
Elective . . . . .	3
Elective . . . . .	3
<b>Total Credits</b>	<b>30</b>
<b>Total Minimum Credits for Graduation</b>	<b>120</b>

Winter (or subsequent semesters)
Communications 4892 – Public Relations Internship II (non-credit required)
To be completed during the winter semester in the student's 4th year.

## CERTIFICATE OF ACHIEVEMENT IN INTERNATIONAL COMMUNICATION

Students in any major of the Bachelor of Communication (BCMM), offered through the Faculty of Communication Studies (FCS), may obtain a Certificate of Achievement in International Communication following completion of a number of courses: including at least two courses in a second language, three courses with an international focus in a range of disciplines, and an acceptable international volunteer, study abroad, or work experience. Students may satisfy requirements of the certificate while completing their degree, with completed courses counting towards both. In doing so they will use some of their general education course requirements at level two or three, some of their communication courses, and some or all of the four elective courses in their program of study. Completing the certificate within the framework of the degree requires planning beginning in year one of the degree programs. Interested students may obtain a full description of the requirements and processes from their program chair.

# FACULTY OF HEALTH AND COMMUNITY STUDIES



## PROGRAMS OFFERED

Bachelor of Arts – Criminal Justice BA-CJ  
Bachelor of Nursing BN  
Bachelor of Applied Business and Entrepreneurship – Sport and Recreation  
Bachelor of Applied Child Studies BChSt  
Bachelor of Applied Ecotourism and Outdoor Leadership BEOL (Applied)  
Bachelor of Applied Justice Studies (admission suspended)  
Bachelor of Physical Education (University Transfer)  
Diploma – Child and Youth Care Counsellor  
Diploma – Disability Studies  
Diploma – Early Learning and Child Care  
Diploma – Social Work  
Certificate – Early Learning and Child Care  
Certificate – Athletic Therapy  
Post-Basic Certificates  
Advanced Studies in Critical Care Nursing  
    Critical Care Nursing  
    Emergency Nursing  
    Neuroscience Nursing  
Advanced Studies in Mental Health  
Forensic Studies  
Studies in Aging  
    Business and Entrepreneurship  
    Studies in Aging  
Maternal Infant Child Healthcare  
    Neonatal Nursing  
    Perinatal Nursing  
Adult Mental Health Certificate of Achievement for Licensed  
    Practical Nurses  
Gerontology Certificate of Achievement for Licensed Practical Nurses  
Bridge to Canadian Nursing –Certificate of Achievement

## FACULTY INFORMATION

Department: 403.440.6379  
Dean, Faculty of Health and Community Studies  
    B. Hendrickson: 403.440.6988  
**Associate Dean,**  
    **C. London: 403.440.6496**  
Chair, Department of Criminal Justice  
    J. Winterdyk: 403.440.6992  
Practicum Coordinator,  
    L. Acheson: 403.440.5682  
Chair, Department of Child and Youth Studies  
    C. Smey Carston: 403.440.6447  
Coordinator, Child Studies  
    R. Foggo: **403.440.6990**  
Work Experience Coordinator, Child Studies  
    D. Mehdwan: **403.440.7016**  
Coordinator, Child and Youth Care Counsellor  
    M. Kingsmith: 403.440.6214  
Coordinator, Early Learning and Child Care  
    L. Sutherby: 403.440.6446  
Department Academic Advisor  
    A. Smith, 403.440.8906  
Chair, Department of Physical Education and Recreation Studies  
    M. Lafave: 403.440.6246  
Program Coordinator, Ecotourism and Outdoor Leadership  
    T.B.A.: 403.440.6502  
Program Coordinator, Bachelor of Applied Business and Entrepreneurship  
– Sport and Recreation  
    J. Weible: 403.440.6986  
Program Coordinator, Athletic Therapy  
    K. Westbrook: 403.440.7759

## FACULTY INFORMATION CONT'D

Program Coordinator, Bachelor of Physical Education

- University Transfer

D. Sheehan: 403.440.5148

Work Experience Coordinator

L. Anderson: 403.440.8973

Practicum Coordinator & Department Academic Advisor

L. Gray: 403.440.6479

Advising Appointments: 403.440.6500

Chair, Department of Social Work and Disability Studies

L. Fountain: 403.440.6443

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R. Lesueur: 403.440.8976

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Coordinator, Practicum & Advising

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A. Barkman: 403-440-6552

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J. Wegerhoff: 403.440.6634

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B. Metcalf: 403.440.6887

Coordinator, Advanced Studies in Critical Care Nursing

(Emergency Nursing)

H. McLellan: 403.440.7201

Coordinator, Advanced Studies in Critical Care Nursing

(Critical Care and Neuroscience Nursing)

P. Price: 403.440.6553

Coordinator, Advanced Studies in Mental Health

F. Jackson: 403.440.6041

Coordinator, Adult Mental Health Certificate of Achievement

for Licensed Practical Nurses

M. Rogerson: 403.440.6882

Coordinator, Forensic Studies

C. Carter-Snell: 403.440-6679

Coordinator, Gerontology Certificate of Achievement

for Licensed Practical Nurses

M. Rogerson: 403.440.6882

Coordinator, Maternal Infant Child Healthcare

S. Beischel: 403.440.7054

Integrative Health Institute

Department: 403.440.8809

Director, Integrative Health Institute

E. Danelesko: 403.440.8808

## CURRICULUM

### Bachelor of Applied Business and Entrepreneurship – Sport and Recreation

Semester 1	Credits
English 1101 or any other 1100-level (or higher) English . . . . .	3
Marketing 2150 – Introduction to Marketing. . . . .	3
Physical Education 1201 – Foundation of Sport and Recreation . . . . .	3
Physical Education 1203 – Organization and Administration of Sport and Recreation . . . . .	3
Physical Education Option . . . . .	3
<b>Total Credits.</b> . . . .	<b>15</b>

Semester 2	Credits
Applied Communications 2251 – Introduction to Fund Development. . . . .	3
Computer Science 1207 – Introduction to Computing for Small Business and Entrepreneurship . . . . .	3
Entrepreneurship 2301 – The Entrepreneurial Experience. . . . .	3
Physical Education 1216 – Program Planning for Physical Activity and Sport . . . . .	3
Physical Education Option . . . . .	1.5*
Arts and Science Requirement. . . . .	3
<b>Total Credits.</b> . . . .	<b>16.5</b>

Semester 3	Credits
Accounting 2121 – Financial Accounting Concepts . . . . .	3
Management 2262 – Business Statistics I . . . . .	3
Recreation Studies 1217 – Marketing for Sport and Recreation . . . . .	3
Recreation Studies 1247 – Theory and Practice in Leadership . . . . .	3
Arts and Science Requirement. . . . .	3
<b>Total Credits.</b> . . . .	<b>15</b>

Semester 4	Credits
Human Resources 2170 – Introduction to Human Resources . . . . .	3
Management 3210 – Business Communication Theory & Practice . . . . .	3
Recreation Studies 1203 – Community Development. . . . .	3
Recreation Studies 1207 – Commercial Recreation . . . . .	3
Physical Education Option . . . . .	1.5*
Arts and Science Requirement. . . . .	3
<b>Total Credits.</b> . . . .	<b>16.5</b>

Semester 5 (Spring/Summer)	Credits
Entrepreneurship 2015 – Directed Field Studies I. . . . .	15

Semester 6	Credits
Accounting 3224 – Management Accounting I. . . . .	3
Entrepreneurship 3251 – Market Research for Small Business . . . . .	3
Physical Education 2261 – Facility Development and Organizing Special Events . . . . .	3
Arts and Science Requirement. . . . .	3
Arts and Science Requirement. . . . .	3
<b>Total Credits.</b> . . . .	<b>15</b>

Semester 7	Credits
Entrepreneurship 3015 – Directed Field Studies II . . . . .	15

Semester 8	Credits
Management 3230 – Business Law. . . . .	3
Physical Education 4267 – Issues and Trends in Sport and Recreation . . . . .	3
Physical Education Option . . . . .	1.5*
Arts and Science Requirement. . . . .	3
Open Elective . . . . .	3
Open Elective . . . . .	3
<b>Total Credits.</b> . . . .	<b>16.5</b>

Total Credits for Graduation. 124.5\* Students can combine two 1.5 credit PHED options and take one 3 credit PHED option.

**Note:** Arts and Science courses must be selected from four (4) different areas. At least two (2) Arts and Science courses (a minimum of six [6] credits) must be at the senior-level (see program/academic advisor for details). See *General Graduation Requirements* section for a full listing of approved Arts and Science Requirements, areas, and restrictions.

\* An Elective is any 3 credit course offered by Mount Royal.

According to University policy relating to applied baccalaureate degree programs, successful completion of an Entrepreneurship course is a graduation requirement for all applied baccalaureate degree programs. In the Bachelor of Applied Business and Entrepreneurship degree programs, an elective course has been substituted for this Entrepreneurship Studies graduation requirement.

### GRADUATION REQUIREMENTS

- Successful completion of a minimum of 124.5 credits (to include a minimum of 94.5 credits of academic course work and a minimum of 30 credits of work experience).
- Successful completion of the two (2) Directed Field Studies; ENTR 2015 and 3015.
- A minimum overall Grade Point Average of 2.00 on all courses required for the program. This includes all core "ACCT", "ACOM", "COMP", "ENTR", "MKTG", "MGMT", "PHED" and "RECR" courses, all approved business options, the Arts and Science requirements, and the English requirement.
- A minimum grade of C in all required core "PHED" and "RECR" courses in the program. In addition, core will also include the two Directed Field Studies – ENTR 2015 and 3015.

See *General Graduation Requirements* section.

## WORK-RELATED PRACTICA

Practica are designed to provide an extension of the learning process in a relevant work environment. Delivered in two semesters, comprising 25 percent of the curriculum for applied baccalaureate degree programs, practica integrate academic learning with paid work experience. Each practica semester has specific course objectives and outcomes. Students are responsible to complete requirements assigned by Mount Royal faculty and are obligated to fulfill commitments made to employers. Successful completion of each semester receives a total of 4 and 8 credits respectively. Given the fluctuating nature of the local labour market, opportunities for work experience can be located outside Calgary, across Canada and in international markets. Students should be prepared to relocate and to receive entry-level compensation.

Practica are considered an academic component of the program. Therefore, students are advised to refer to other parts of the calendar including *Evaluation of Prior Learning and Fees and Deposits*.

## CONTINUANCE IN THE PROGRAM

Students accepted into the Bachelor of Applied Ecotourism and Outdoor Leadership degree program must comply with all University policies and regulations relating to applied baccalaureate degrees and continuance. Students enrolled in the Bachelor of Applied Ecotourism and Outdoor Leadership degree program must maintain a minimum grade of "C" (2.00 GPA) in each of the required core courses in the program and maintain a minimum cumulative Grade Point Average of 2.00. Core courses are designated with "ETOL", "RECR", and "PHED."

## DURATION OF THE PROGRAM

Students may apply to exit from the Bachelor of Applied Ecotourism and Outdoor Leadership degree with a diploma in Outdoor Pursuits after successfully completing the diploma program requirements. Students who decide to exit the Bachelor of Applied Ecotourism and Outdoor Leadership degree program with a Diploma – Outdoor Pursuits, must apply to the department and declare their intentions prior to January 1 of the second year of the applied baccalaureate degree program. Students who choose the Diploma – Outdoor Pursuits exit may apply for re-admission to the Bachelor of Applied Ecotourism and Outdoor Leadership degree, but must meet the requirements for applied baccalaureate degree continuation and have successfully completed the courses required in the first two-years of the applied baccalaureate degree. Students continuing in the applied baccalaureate degree after January 1 of the second-year of the program are not eligible to apply for an exit Diploma – Outdoor Pursuits unless they meet the diploma exit requirements. Students choosing the diploma exit option must consult with an academic advisor in the Department of Physical Education and Recreation Studies.

## CURRICULUM

### Bachelor of Applied Ecotourism and Outdoor Leadership

Semester 1 (Fall)	Credits
Ecology 1210 – Ecology	3
English 1101 – Critical Writing and Reading	3
Ecotourism and Outdoor Leadership 2201 – Foundations of Outdoor Leadership	3
Physical Education 2402 – Backpacking	1.5
Physical Education 2404 – Introductory Rock Climbing	1.5
Physical Education 2414 – Introductory Canoeing	1.5
<b>Total Credits</b>	<b>13.5</b>

Semester 2 (Winter)	Credits
Computer Science 1209 – Introduction to Computing for Applied Degrees	3
Ecotourism and Outdoor Leadership 2203 – Sustainable Tourism	3
Physical Education 1005 - Leadership and Communication	3
Geography 1101 – The Physical Environment	3
Physical Education 2410 – Wilderness Survival Techniques	1.5
Physical Education 2416 – Introduction to Kayaking	1.5
<b>Total Credits</b>	<b>15</b>

Semester 3 (Spring/Summer)	Credits
Ecotourism and Outdoor Leadership 3303 – Expedition (in May or August)*	3
<b>Total Credits</b>	<b>3</b>

Semester 4 (Fall)	Credits
Ecotourism and Outdoor Leadership 3305 – Program Planning	3
Natural Science 1112 – Introduction to Current Environmental Issues	3
Physical Education 2408 – Mountain Bike Trekking	1.5
Recreation Studies 1217 – Marketing for Sport and Recreation	3
Recreation Studies 1247 – Theory and Practice in Leadership	3
Arts and Science Requirement	3
<b>Total Credits</b>	<b>16.5</b>

Semester 5 (Winter)	Credits
Ecotourism and Outdoor Leadership 2401 – Ecotourism Facilitation Skills	3
Ecotourism and Outdoor Leadership 3307 – Administration of Outdoor Centres	3
Physical Education 2406 – Back Country Skiing	1.5
Physical Education 2418 – Introductory Mountaineering	1.5
Arts and Science Requirement	3
Elective 1	3
<b>Total Credits</b>	<b>15</b>

Semester 6 (Spring/Summer)	Credits
Ecotourism and Outdoor Leadership 2011 – Practicum I	3
<b>Total Credits</b>	<b>3</b>

Semester 7 (Fall)	Credits
Ecotourism and Outdoor Leadership 3309 – Individual Projects	3
Entrepreneurship 1232 – Entrepreneurship Studies	3
Geography 2443 – Tourism and Recreation Geography	3
Arts and Science Requirement	3
Arts and Science Requirement	3
<b>Total Credits</b>	<b>15</b>

Semester 8 (Winter)	Credits
Arts and Science Requirement . . . . .	.3
Arts and Science Requirement . . . . .	.3
Arts and Science Requirement . . . . .	.3
Elective 2 . . . . .	.3
Elective 3 . . . . .	.3
Total Credits . . . . .	.15

Semester 9 (Spring/Summer)	Credits
Ecotourism and Outdoor Leadership 3011 – Practicum II . . . . .	.9

Semester 10 (Fall)	Credits
Ecotourism and Outdoor Leadership 4405 – Issues in Ecotourism . . . . .	.3
Ecotourism and Outdoor Leadership 4409 – Applied Leadership . . . . .	.3
Ecotourism and Outdoor Leadership 5010 – E-Portfolio . . . . .	.3
Elective 4 . . . . .	.3
Arts and Science Requirement . . . . .	.3
Total Credits . . . . .	.15
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Total Credits for Graduation . . . . .	.120

\* Ecotourism 3303 consists of a 10 day expedition in early May or late August of semester 3. Students will be responsible for personal subsistence costs associated with Ecotourism and Outdoor Leadership 3303. For details on the date, consult an advisor in the Department of Physical Education and Recreation Studies.

**Note:** Arts and Science Requirements must be selected from four (4) different areas. At least two (2) arts and science courses (a minimum of six [6] credits) must be at the senior level (see program/academic advisor for details). See *General Graduation Requirements* section for a full listing of approved Arts and Science Requirements, areas and restrictions.

**GRADUATION REQUIREMENTS**

- Successful completion of a minimum of 120 credits
- Successful completion of the two work related practica, ETOL 2011 and ETOL 3011
- A minimum overall Grade Point Average of 2.00 on all courses required for the program. This includes all core "ETOL", "PHED" and "RECR" courses, all approved options, the Arts and Science Requirements. English 1101 and Computer Science 1209.
- A minimum grade of "C" (2.00 GPA) in all required core "ETOL", "PHED" and "RECR" courses in the program.

Additionally, students must complete the following graduation requirements:

- A self-directed outdoor expedition, approved by the department;
- A Wilderness and Remote Emergency Response certificate, provided by the department; and
- An advanced certificate related to the ecotourism and outdoor leadership field, approved by the department



**DIPLOMA EXIT**

~~Students entering the Bachelor of Applied Ecotourism and Outdoor Leadership degree program should be aware that there are provisions for them to exit with a Diploma in Outdoor Pursuits in the event that they change their educational or career plans following acceptance into and commencement of the degree program. Full details regarding the diploma exit provisions and the specific graduation requirements for the Diploma in Outdoor Pursuits may be obtained from the chair or the academic advisor for the Bachelor of Applied Ecotourism and Outdoor Leadership degree.~~

~~For Restrictions and Interpretations concerning the program requirements for English, Elective and Arts and Science courses, refer to the section entitled *General Graduation Requirements*.~~

## PRIOR LEARNING ASSESSMENT AND RECOGNITION

Before making application for *Prior Learning Assessment*, students should consult with the Coordinator. Recognition for prior learning may be given to students who have clinical experience and/or national certification in specialty areas (e.g. Critical Care, Emergency or Neuroscience Nursing).

## ADVANCED STUDIES IN CRITICAL CARE NURSING (ACCN)

Theory courses in the Advanced Studies in Critical Care Nursing Post-Basic Certificate program are offered on a home study basis (distance delivery) in the Fall and Winter Semesters. Some theory courses may be offered in the Spring. Clinical practice courses are organized in intensive care, neuroscience or emergency units in the Fall, Winter and Spring Semesters.

## CONTINUANCE IN THE PROGRAM AND GRADUATION REQUIREMENTS

A minimum grade of "C" is required in all courses and a minimum of 18 credits for the Critical Care Nursing, Emergency Nursing and Neuroscience Nursing Streams.

A Certificate of Achievement is awarded upon successful completion of 9 additional credits in the Critical Care, Neuroscience or Emergency Nursing Streams.

## CURRICULUM

### Certificate – Advanced Studies in Critical Care Nursing – Critical Care Nursing Critical Care Stream

Core Requirements – Level I	Credits
Advanced Studies in Critical Care Nursing 5501 – Critical Care Nursing: Physiology . . . . .	.3
Advanced Studies in Critical Care Nursing 5505 – Critical Care Nursing: Pathophysiology . . . . .	.3
Advanced Studies in Critical Care Nursing 5507 – Pharmacology for the Acutely Ill . . . . .	.3
Advanced Studies in Critical Care Nursing 5531 – Critical Care and Emergency Nursing: Assessment . . . . .	.3
Advanced Studies in Critical Care Nursing 5581 – Critical Care Nursing: Clinical I . . . . .	.6
Level I Total Credits for Graduation with a Certificate in Advanced Studies in Critical Care Nursing . . . . .	18

### Certificate – Advanced Studies in Critical Care Nursing – Emergency Nursing Emergency Stream

Core Requirements – Level I	Credits
Advanced Studies in Critical Care Nursing 5531 – Critical Care and Emergency Nursing: Assessment . . . . .	.3
Advanced Studies in Critical Care Nursing 5551 – Emergency Nursing – Pathophysiology . . . . .	.3
Advanced Studies in Critical Care Nursing 5553 – Emergency Nursing Part A: Management of the Acutely Ill and Injured . . . . .	.3
Advanced Studies in Critical Care Nursing 5555 – Emergency Nursing Part B: Management of the Acutely Ill and Injured . . . . .	.3
Advanced Studies in Critical Care Nursing 5591 – Emergency Nursing – Clinical I . . . . .	.6
Level I Total Credits for Graduation with a Certificate in Advanced Studies in Critical Care Nursing . . . . .	18

## Certificate – Advanced Studies in Critical Care Nursing – Neuroscience Nursing Neuroscience Stream

Core Requirements – Level I	Credits
Advanced Studies in Critical Care Nursing 5501 – Critical Care Nursing: Physiology . . . . .	.3
Advanced Studies in Critical Care Nursing 5507 – Pharmacology for the Acutely Ill . . . . .	.3
Advanced Studies in Critical Care Nursing 5531 – Critical Care and Emergency Nursing: Assessment . . . . .	.3
Advanced Studies in Critical Care Nursing 5571 – Neuroscience Nursing Theory . . . . .	.3
Advanced Studies in Critical Care Nursing 5573 – Neuroscience Nursing Clinical . . . . .	.6
Level I Total Credits for Graduation with a Certificate in Advanced Studies in Critical Care Nursing . . . . .	18

## Level II – Advanced Studies in Critical Care Nursing Critical Care Emergency and Neuroscience Streams

### Core Requirements – Level II

Level II Advanced Studies in Critical Care Nursing students are required to take 2 theory courses and a focused clinical practicum. At least one of the theory courses must be from Mount Royal. Students determine their desired clinical focus and plan courses to facilitate learning in this area prior to the clinical experience. Students then plans clinical objectives in consultation with program faculty which meet their clinical focus. Students must have at least 3 years of experience in the clinical specialty area.

Theory Courses	Credits
Courses which are considered for theory options in level II include:	
Advanced Studies in Critical Care Nursing 5507 – Pharmacology for the Acutely Ill . . . . .	.3
Advanced Studies in Critical Care Nursing 5513 – Advanced Trauma Care . . . . .	.3
Advanced Studies in Critical Care Nursing 5571 – Neuroscience Nursing Theory . . . . .	.3
Forensic Studies 4405 – Forensic Studies: Victims of Violence . . . . .	.3
Other courses from Mount Royal post-basic certificates and/or external courses may be considered in consultation with the Coordinator. National certification in specialty nursing areas (e.g. Critical Care, Emergency or Neuroscience) will be considered for course credit for one of the theory options if not used in Level I for credit.	

Clinical Courses	Credits
Students complete 105 hours of clinical practicum in a clinical area related to their course objectives.	
Advanced Studies in Critical Care Nursing 5583 – Advanced Clinical II . . . . .	.3
Level II Total Credits for Certificate of Achievement in Advanced Studies in Critical Care Nursing . . . . .	9

### **ANTH 2225 – Ancient Civilizations (formerly ARKY 3325)**

(3 credits – TG) 3 hours lecture

This course critically examines the theories and facts behind what is meant by “civilization”, the origins of agriculture and its impact on social complexity. The focus is on several of the earliest civilizations in both the Old and New World, including the Sumerians of Mesopotamia, the Harappans of the Indus Valley, Old Kingdom Egypt, China, the Andes, and the Maya of Mesoamerica.

### **ANTH 2226 – Early Empires: Assyrians, Babylonians and Persians (formerly ARKY 3326)**

(3 credits – TG) 3 hours lecture

This course examines the rise, fall and characteristics of three of the world’s greatest successive early empires—the Assyrians, the Babylonians and the Persians—from c. 1000 BC to the conquest of Alexander the Great within Iraq and Iran, and how each responded to and incorporated external cultural influences.

Recommended Preparation: Anthropology 1104, 1105 or 2225; or History 1101; or Religious Studies 1101; or consent of the department.

### **ANTH 2227 – Early Islam**

(3 credits) 3 hours lecture

This course is a detailed study, both diachronic and synchronic, of the ideals behind and artistic embellishments of monuments and artefacts in the Muslim world, as expressions of Islamic beliefs and traditions. The focus is on the Middle East, from the Arabian Peninsula through North Africa and Spain, in order to address specific regional developments from late pre-Islamic times (1st - 6th centuries AD) into the early Crusades (about 1100 AD).



Note: No previous knowledge of Islam or of Arabic is assumed or necessary.

### **ANTH 2229 – Anthropology of “Race” (formerly ANTH 3329)**

(3 credits – TG) 3 hours lecture

This discussion-based course takes a critical examination of historical and modern anthropological perspectives on the biological term “race.” Historically, race in a Biological Anthropology context examines the classification of modern human physical variation. Today this context has expanded including the impact of genetic variation, biological determinism of race and racial definitions of ancient human ancestors.



### **ANTH 2230 – History of Prehistory**

(3 credits – TG) 3 hours lecture

This course introduces students to how historic discoveries in physical anthropology and archaeology are an integral part of the study of prehistory. Controversial debates such as race and human variation, phylogeny, archaeological dating/context, Neandertals and modern humans, and archaeological site analysis will be explored.



*Prerequisites: Anthropology 1101 or Anthropology 1102 or consent of the department.*

### **ANTH 2231 – The Anthropology of Gender (formerly ANTH 3331)**

(3 credits – TG) 3 hour lecture

This course is a comparative analysis of gender as a central feature of social identity and social relations of power. Biological, archaeological, feminist and post-modern approaches to the understanding of women’s and men’s experiences in their historical and cultural varieties form the basis of the course. Case studies will be drawn from western and non-western cultures around the world.



*Prerequisite: Anthropology 1103 or consent of the department.*

### **ANTH 2233 – The Anthropology of Religion**

(3 credits) 3 hours lecture

This course surveys anthropological approaches to the study of religion. Topics will include religious specialists, such as shamans, sorcerers and priests; practices such as witchcraft, sacrifice, spirit possession, and healing; the role of religion and religious rituals in various cultures; and the ways in which religious belief and practice responds to and promotes social and cultural change.

*Prerequisite: Anthropology 1103 or consent of the department.*

### **ANTH 2235 – Culture and Environment of Selected Circumpolar Peoples (formerly ANTH 3335)**

(3 credits – TG) 3 hours lecture

This course is an ethnographic survey of the Peoples and cultures of the circumpolar area with an emphasis upon environmental adaptation and the effects of culture contact. Selected cultures include the Sámi, Chukchi, Evenks and Tungus, Aleuts, Yupik, Inuit, Athabascans and Algonquians.

*Prerequisite: Anthropology 1103 or consent of the department.*

### **ANTH 2241 – Ethnography in Anthropology**

(3 credits) 3 hours lecture

Ethnography (“writing culture”) is central to the discipline of Anthropology. Through the reading of complete ethnographic works and critical treatises on ethnography, students will explore the entirety of the ethnographic enterprise: how ethnography allows unique insights into specific cultures, how ethnographic research is designed and carried out, how ethnographic texts are constructed, and how ethnographic representations have been responded to and interpreted.

*Prerequisite: Anthropology 1103.*

### **ANTH 2243 – Anthropology Through Film**

(3 credits – TG) 3 hours lecture

This course takes a historical and theoretical perspective of ethnographic film, the visual medium through which anthropologists and filmmakers have “captured” and presented human cultural experience for almost 100 years. Students will engage in a critical analysis of the representations presented in ethnographic film and consider relationships between the development of the ethnographic film genre and the development of Anthropology as a whole.



*Prerequisite: Anthropology 1103 or consent of the department.*

### **ANTH 2253 – Introduction to Applied Archaeology (formerly ARKY 3313)**

(3 credits) 3 hours lecture

This course is an introduction to the methods of archaeological reconnaissance and survey. Heritage Resource Impact Assessment Studies required by legislation enacted in Western Canada will be emphasized. Searches of government files, topographic map and aerial photo interpretation will form the core of the course material. The ability to locate archaeological sites using the UTM and legal land description systems will be acquired as well.

Recommended Preparation: Anthropology 1104.

Note: Anthropology 2253 cannot be used as partial credit for either Anthropology 2290 or 2291.

### **ANTH 2255 – An Ethnographic Survey of Native North America (formerly ANTH 3355)**

(3 credits – TG) 3 hours lecture

This course provides an overview of native cultures of North America, examining relationships among subsistence and settlement patterns, material culture, social and political organization, ideological structures, ceremonial life, mythology and art. Because of the number and diversity of native peoples in North America, “typical” groups from each culture area will form the basis of description and analysis.

*Prerequisite: Anthropology 1103 or consent of the department.*

**ANTH 2270 – Archaeology of the Nile Valley (formerly ARKY 3331)**

(3 credits – TG) 3 hours lecture

This course provides an overview of the development of civilizations along the Nile. Beginning with hunter-gatherers, archaeological evidence will be reviewed detailing the transition to civilizations. Emphasis will be placed upon archaeological evidence, history and epigraphy in understanding the two major civilizations of the Nile Valley: Egypt and Kush.

**ANTH 2283 – Anthropological Perspectives on Discourse Strategies (formerly ANTH 3383)**

(3 credits) 3 hours lecture

This course examines cultural constructions of narrative and discourse. Topics include inter-tribal and inter-ethnic interaction; communication between genders and classes; discourse in institutional settings such as the courtroom, classroom and work settings; and discourse in the media.

*Prerequisite: Anthropology 1106 or consent of the department.*

**ANTH 2290 – Field Course in Archaeological Techniques I (formerly ARKY 3317)**

(3 credits – TG) 3 weeks Field Work

This course provides an introduction to the practical application of modern field techniques in Archaeology, including excavation and recording and analysis of sites, artifacts, and related materials. The course will require travel to an international archaeological site, usually during the summer.

*Prerequisite: Anthropology 1104 and 2215.*

**Note:** Anthropology 2253 and 2290 cannot be used as partial credit for 2291.

**Note:** Students will be responsible for paying all costs, including travel associated with the international field school experience.

**ANTH 2291 – Field Course in Archaeological Techniques II (formerly ARKY 3319)**

(6 credits – TG) 6 weeks Field Work

This course provides a comprehensive introduction to the practical application of modern field techniques in archaeology, including excavation and recording and analysis of sites, artifacts, and related material. This course will require travel to an international designated archaeological site, usually during the summer.

*Prerequisite: Anthropology 1104 and 2215.*

**Note:** Anthropology 2253 and 2290 cannot be used as partial credit for Anthropology 2291.

**Note:** Students will be responsible for paying all costs, including travel, associated with the international field school experience.

**ANTH 3302 – Ethnographic Methods**

(3 credits – TG) 2 hours lecture, 2 hours lab

This class will explore the ways in which ethnographic research is designed, carried out, and analyzed. A variety of ethnographic methods will be discussed, with an emphasis on conducting participant-observation and on in-depth interviewing. Under the guidance of the instructor, students will design, conduct, and report on an ethnographic project of their own choosing.

*Prerequisite: Anthropology 2241 or 3305 or consent of the department.*

**ANTH 3304 – Anthropological Perspectives on Globalization**

(3 credits – TG) 3 hours lecture

Anthropologists study globalization to learn how the complex flows of people, goods, capital, and ideas that traverse the globe are understood, experienced, and negotiated by peoples in specific contexts. This class will explore the ways that living in a globalized world affects the lives, sensibilities, and identities of the inhabitants of the so-called "global village."

*Prerequisite: Anthropology 1103 or General Education 1301 or consent of the department.*

**ANTH 3305 – History of Anthropology I**

(3 credits – TG) 3 hours lecture

This course follows the historical development of Anthropology from early predecessors to its inception as an academic discipline in the nineteenth century and finally to present-day configurations. Emphasis will be placed on the creation of American Anthropology by Franz Boas, the development of specialized approaches within cultural and linguistic anthropology, and the impacts of feminism and postmodernism.

*Prerequisites: Anthropology 1103 and 1106 or consent of the department.*

**ANTH 3306 – History of Anthropology II**

(3 credits – TG) 3 hours lecture

This course follows the historical development of Physical Anthropology and Archaeology from early scientific thinkers in the natural sciences to the establishment of Anthropology as an academic discipline in the nineteenth and twentieth centuries. Emphasis is on humans' place in nature, human variation, evolutionary theory, classification/typology/technology, chronology, and how cultural evolution is viewed.

*Prerequisites: Anthropology 1102 and 1104 or consent of the department.*

**ANTH 3307 – Statistics for Anthropology**

(3 credits – TG) 1 hours lecture, 2 hours tutorial

This course offers an introduction to descriptive and inferential statistical techniques as applied to anthropological research. Through instruction and laboratory practice, students will develop a working knowledge of how statistical concepts can be used to correctly analyze, interpret, and evaluate research findings.

*Prerequisite: Anthropology 1102 or 1104 and Anthropology 1103 or 1106 and one of the second year core courses (Anthropology 2225, 2229, or 2241) or consent of the department.*

*Strongly recommended: Mathematics 30 (Pure or Applied).*

**ANTH 3309 – Ceramic Analysis**

(3 credits – TG) 3 hours lecture, 3 hours lab

In this intensive survey course, students will develop a working knowledge of and approach to all aspects of current archaeological and contemporary ceramics research through lectures and hands-on labs. The course content is structured to lead directly into research design development for a study of ceramics within the student's area, culture(s) and time period(s) of interest, from prehistoric to contemporary cultures worldwide, including ethnoarchaeology.

*Prerequisite: Anthropology 1104, or consent of the department.*

*Strongly recommended: Anthropology 3307.*

**ANTH 3311 – Practical Problems in Archaeological Interpretation**

(3 credits – TG) 3 hours lecture

In this course students analyze and interpret data sets from archaeological sites worldwide, focusing on the interrelationships between theory, method, and interpretation. The student will develop a solid working knowledge of approaches on those data sets and their interpretation through a series of readings and exercises focused on data interpretation.

*Prerequisite: Anthropology 1104 and two Anthropology courses at the 2000 level, or consent of the department.*

**ANTH 3319 – Ethnography of the Great Plains (formerly ANTH 3419)**

(3 credits – TG) 3 hours lecture

This course is a comparative study of peoples of the Great Plains past and present. Focus is upon the material culture, settlement and subsistence patterns, language, social and political structures, gender roles, religion, world view, ritual and art of the indigenous peoples of the region. Anthropological and ethnohistorical sources will form the primary data, with a comparison to aboriginal sources.



**ARTH 3313 – Impressionism: Art, Leisure & Society**

(3 credits – TG) 3 hours lecture

This course will focus on the social history of Paris 1865-1885 as reflected in the subject matter of Impressionist art, particularly leisure. Issues such as industrialization, class, the secularization of society, the critic-dealer, and gender inequality also figure prominently.

*Recommended Preparation:* Any 1000-level Art History course.

**ARTH 3315 – Art & Ideas**

(3 credits) 3 hours lecture

Art and Ideas introduces students to the discipline of art history through the exploration of influential art historical methodologies and theoretical perspectives that have emerged in the discipline.

*Recommended Preparation:* Any 1000-level Art History course.

**ARTH 4411 – Architecturae: Poetic Intentions in Architecture**

(3 credits) 3 hours lecture

This advanced seminar examines significant buildings with the intention of discovering their essential nature. Students will explore architecture as the embodiment of ideas through the investigation of concepts ranging from light, transparency, opacity and texture, to more nuanced themes, such as the narrative of passage, extreme topographies and genius loci. The seminar provides opportunities for the exploration of links between theory and design in contemporary architecture.

*Prerequisite:* One 2000-level or 3000-level Art History course.

**ARTH 3199, 4199 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

**ASTRONOMY (ASTR)****ASTR 2201 – The Solar System**

(3 credits – TG) 3 hours lecture

This is primarily a descriptive course aimed at non-science students. Conceptual understanding will be stressed over strict mathematical derivation. The topics covered in this course emphasize astronomy in our own solar neighbourhood, and include the Sun, the terrestrial and Jovian planets and their moons, comets, asteroids, as well as the formation of the solar system.

**Note:** Only one of Astronomy 2201 and Astronomy 2011 can be used for graduation purposes.

**ASTR 2203 – The Universe at Large**

(3 credits – TG) 3 hours lecture

This is primarily a descriptive course aimed at non-science students. Conceptual understanding will be stressed over strict mathematical derivation. The topics covered in this course emphasize larger-scale astronomy, and include the lives and deaths of stars, supernovae, pulsars, black holes, the Milky Way and other galaxies, active galaxies and quasars, and cosmology.

**Note:** Only one of Astronomy 2203 and Astronomy 2011 can be used for graduation purposes.

**ASTR 2211 – Fundamentals of Astronomy I**

(3 credits – TG) 3 hours lecture, 1 hour tutorial, 1 hour lab

Basic concepts of astronomy with emphasis on our solar system including spherical astronomy; Newton's laws and gravitation; time, elements of celestial mechanics; astronomical observation and measurement; telescopes and accessories; the planets and their satellites; the sun and the rest of the solar system. Laboratory exercises will be held at the Rothney Astrophysical Observatory as circumstances permit. Recommended for science majors.

*Prerequisite:* Mathematics 30 (Pure or Applied) and Physics 30 or equivalent.

This is a first year course for astrophysics and science majors; offered in the Fall only. Prerequisite for the University of Calgary Astronomy 213 (offered at the U of C in the Winter). It is the first of a two semester sequence of introductory astronomy courses intended for students who plan to major in the physical sciences. The course stresses scientific explanation and uses mathematics, the language of science, extensively. The course is recommended in preference to Astronomy 2205 for science majors, particularly those taking physics and mathematics courses.

**Note:** Credit for both Astronomy 2205 and 2211 will not be allowed.

**BIOCHEMISTRY (BCEM)****BCEM 2201 – General Biochemistry**

(3 credits – TG) 3 hours lecture, 3 hours lab

This course deals with the biochemistry of the major groups of biological molecules. Topics include carbohydrates, polypeptides, lipids, nucleic acids, and their precursors. Laboratory exercises will involve the isolation and characterization of selected biological molecules.

*Prerequisite:* Chemistry 2101 with a grade of C- or higher.

*Prerequisite or Corequisite:* Chemistry 2102.

**BCEM 3201 – Protein Biochemistry**

(3 credits) 3 hours lecture, 3 hours lab

The structure function relationships that exist within this broad category of biomolecules will be investigated. Topics will include levels of protein structure, domains, mosaics, and functional roles of selected proteins or protein classes. Laboratory exercises will involve the utilization of purification techniques in the isolations of selected proteins from simple cellular systems.

*Prerequisite:* Biochemistry 2201 with a grade of C- or higher.

**BCEM 4212 – Biochemical Pharmacology**

(3 credits) 3 hours lecture, 2 hours seminar

This course covers the fundamental biochemical and physiological concepts of pharmacology. Important concepts include drug administration, sites of action, distribution, metabolism, elimination and adverse effects. The biochemical mechanisms themselves and how they are related to physiological states and effects such as neuronal excitation, blood pressure, and inflammation will be examined. Frequently encountered drugs are used to illustrate these concepts.

*Prerequisites:* Biochemistry 2201 with a grade of C- or higher.

**BIOLOGY (BIOL)****BIOL 0115 – Introduction to Biology**

(0 credits) 3 hours lecture, 1-hour tutorial, 3 hours lab

This is a credit-free upgrading course; special fees apply. Topics include energy flow in the biosphere, energy flow in the cell, adaptation, population and matter and energy exchange.

*Corresponding Alberta High School Equivalent:* Biology 20.

**BIOL 0130 – Fundamentals of Biology**

(0 credits) 3 hours lecture, 1 hour tutorial, 3 hours lab

This is a credit-free upgrading course; special fees apply. Topics in this course include: cell chemistry, cell ultra-structure, organelle function, metabolic pathways of photosynthesis and respiration, mitotic and meiotic processes, genetics and heredity and human systems.

*Corresponding Alberta High School Equivalent:* Biology 30.

*Recommended Preparation:* Biology 0115 or Biology 20.

### **BIOL 3309 – Plants and People**

(3 credits – TG) 3 hours lecture

A review of the structure and function of plants. A survey of the nature of people's basic food plants and an overview of agricultural and forestry practices. Plant improvement by traditional and modern methods, and plant propagation.

*Prerequisite: Biology 2205 or 1202 or consent of the department.*

**Note:** Not open for credit to majors and minors in the Department of Biological Sciences at the University of Calgary.

### **BIOL 4102 – Pathophysiology: Mechanisms of Disease**

(3 credits) 3 hours lecture, 2 hours tutorial

Students will study the development and consequences of diseases that result from alterations in the function of molecules, cells, organs and systems, including the influence of environment and genetics. The course will use a multidisciplinary approach to understand basic disease processes and their underlying mechanisms. The course will focus on a selected set of human diseases, chosen to illustrate fundamental features of pathophysiological processes.

*Prerequisites: Biology 2202, Biology 3205, and Biochemistry 2201, each with a grade of C- or higher.*

### **BIOL 4206 – Viruses**

(2 credits) 2 hours lecture

This course provides an overview of the major categories of viruses, with emphasis on host-specificity and genetic mechanisms. It also deals with the use of viruses as vectors for genetic manipulations, and the effects of viral infections on our society.

*Prerequisite: Biology 3101 or equivalent, with a grade of C- or higher.*

### **BIOL 4209 – Neuroscience**

3 credits – 3 hours lecture, 2 hours tutorial weekly

This course is an exploration of the expansive field of neuroscience through a multidisciplinary examination of current research. The latest discoveries and techniques in the field will underscore an investigation into hot topics including neurogenesis, learning and memory, addiction, stress, pain, cognition and consciousness, emotional processing, motor control and selected diseases and disorders. An integrative understanding of the topics at a cellular, systems and behavioural level will be emphasized.

*Prerequisites: Biology 3205 with a grade of C- or higher.*

### **BIOL 4211 – Applied Human Physiology**

(3 credits) 3 hours lecture, 1 hour tutorial

This course will build on the knowledge of basic physiology of humans to address the integrated physiological responses of human subjects to exercise and other stressors. In addition, interactions between exercise and aging, gender, heredity, nutrition, disease and environmental extremes will be discussed. Students will play an active role in developing their understanding of applied human physiology through an independent research project and presentation of a specific area of interest.

*Prerequisite: Biology 3205 with a grade of C- or higher.*

### **BIOL 4215 – Parasitology (formerly BIOL-4102)**

(3 credits) 3 hours lecture, 1 hour tutorial

This course provides an introduction to the biology of human parasites including protozoa, helminthes, and arthropods. Emphasis is placed on the cell biology, morphology, life cycle, epidemiology, pathogenesis and clinical manifestations of parasites of medical importance. In addition, the fundamental mechanisms in the parasite-host relation and defense mechanisms are studied.

*Prerequisite: Biology 2202 with a grade of C- or higher.*

### **BIOL 1199, 1299 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## **BLACKFOOT (BKFT)**

### **BKFT 0130 – Introductory Blackfoot Language**

(0 credits)

This is a credit free upgrading course; special fees apply. This is a basic introduction in both the written (using the Roman alphabet) and oral aspects of the Blackfoot language. The course will focus on grammar, vocabulary and oral skills.

## **CANADIAN STUDIES (CNST)**

### **CNST 1131 – Introduction to Canadian Studies (formerly CNST 2231)**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course introduces students to the diversity and complexity of Canadian society. Popular culture, art, music, politics, the economy, regionalism, and ethnic relations are some of the topics that may be examined. This course also addresses issues such as identity, difference, nationhood and patriotism.

**Note:** Canadian Studies 1131 = Athabasca University HIST 326. Students who take both Canadian Studies 1131 and History 2232 can obtain credit for Athabasca University HIST 329. Students may not, however, count Canadian Studies 1131 more than once.

### **CNST 2233 – Canada in Comparative and International Perspective (formerly CNST 3333)**

(3 credits – TG) 3 hours lecture

Canada will be compared, from a variety of perspectives, to the United States, Japan, Switzerland and other countries. Canada's role in world affairs; its defence, trade and diplomatic policies will be examined.

### **CNST 2237 – Introduction to Folklore: The Canadian Context (formerly CNST 3337)**

(3 credits – TG) 3 hours lecture

Introduction to the academic study of folklore: basic terminology, folk groups, performance and applications with examples taken from the Canadian and Albertan context. Introduction to traditional genres of folkloristic expression and analysis of current folk groups and their folklore.

### **CNST 3199, 4199 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## **CHEMISTRY (CHEM)**

### **CHEM 0115 – Basic Chemistry I**

(0 credits) 3 hours lecture, 1 hour tutorial, 3 hours lab

This is a credit-free upgrading course; special fees apply.

Topics include: matter and measurement in chemistry, atomic structure, periodic table, chemical formulae and nomenclature, chemical reactions and chemical equations, mole concept and stoichiometric calculations, chemical bonding solution, stoichiometry and gas laws. Students who successfully complete this course or its equivalent are adequately prepared to take Chemistry 0130.

*Corresponding Alberta High School Equivalent: Chemistry 20.*

*Recommended Preparation: Pure Mathematics 10 or Equivalent.*

### **CHEM 0130 – Basic Chemistry II**

(0 credits) 3 hours lecture, 1 hour tutorial, 3 hours lab

This is a credit-free upgrading course; special fees apply. Topics include: solution stoichiometry, acids and bases, oxidation-reduction, energy changes, reaction rates, chemical equilibria, redox reactions and electrochemistry. This is a quantitative chemistry course and therefore some math skills are strongly recommended.

*Corresponding Alberta High School Equivalent: Chemistry 30.*

*Recommended Preparation: Chemistry 0115 or Chemistry 20 AND Mathematics 0115 or Pure Mathematics 20.*



### **CHEM 3103 – Advanced Organic Synthesis**

(3 credits – TG) 3 hours lecture, 4 hours lab

This course deals with the synthetic aspects of organic chemistry: oxidations, reductions, concerted reactions, stereoselectivity, synthetic equivalents, and protecting groups. The reaction types will then be used in planning efficient synthetic pathways towards important complex target molecules such as clinical drugs and natural products. The laboratory component will emphasize isolation, purification, and characterization of major and minor products from selected syntheses.

*Prerequisites: Chemistry 2102 with a grade of C- or higher.*

### **CHEM 3201 – Spectroscopy**

(3 credits) 3 hours lecture, 3 hours lab

This course is an exploration of atomic and molecular spectroscopy and application of group theoretical concepts. Topics will include vibrational, absorption and emission spectroscopy, both single and multidimensional NMR based on various nuclei, as well as mass spectrometry. Fundamental theories that lead to spectral phenomenon, as well as the application of these theories in the identification of complex unknowns will be addressed both through lecture and laboratory work.

*Prerequisite: Chemistry 2102 with a grade of C- or higher.*

*Pre or Corequisite: Chemistry 3602 or department consent.*

### **CHEM 3357 – Industrial Organic Chemistry**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

Topics discussed in this course include: the hybridization of the carbon atom; covalent bonding; reactions of alkanes, alkenes, alkynes and aromatic hydrocarbons; functional groups and their reactions; polymerization and industrial applications. Major projects will include cradle-to-grave analysis of an assigned organic compound and theoretical development of new recycling methods for organics.

*Prerequisite: Chemistry 2209 or equivalent.*

### **CHEM 3401 – Solid State I**

(3 credits) 3 hours lecture, 1 hour tutorial, 3 hours lab

This course is a study of the models and concepts underlying the field of inorganic chemistry, and the behaviour of chemical species in the solid state. Topics covered will include elemental periodic trends, solid state chemistry, and coordination complexes. The laboratory component involves isolation, purification and analysis of a variety of inorganic compounds, including cage complexes and superconductors. Credit for both CHEM 3401 and PHYS 3401 will not be permitted.

*Prerequisite: Chemistry 1202 and Physics 1212, both with a grade of C- or higher.*

**NOTE:** Credit for both Chemistry 3401 and Physics 3401 will not be allowed.

### **CHEM 3601 – Thermodynamics**

(3 credits) 3 hours lecture, 3 hours lab

This is an introduction to thermodynamics from a classical, macroscopic perspective. Lecture topics will include the laws of thermodynamics, Maxwell relations, internal energy, enthalpy, entropy, Helmholtz and Gibbs free energies, chemical potential and equilibrium, as well as a detailed study of the Kinetic Theory of Gases for mono- and polyatomic gases, both ideal and real. The laboratory component will support the lecture material through theoretical modeling and basic thermodynamic and kinetic experiments.

*Prerequisite: Chemistry 1202, Physics 1212 and Mathematics 1202, with a grade of C- or higher or department consent.*

**Note:** Credit for both Chemistry 3601 and Physics 3601 will not be allowed.

### **CHEM 3602 – Elementary Quantum Mechanics**

(3 credits) 3 hours lecture, 3 hours lab

This is an introductory course in quantum mechanics. The basic theories and formalism of quantum mechanics will be developed, followed by its application to a variety of model systems from atomic and molecular physics and chemistry; including a discussion of electron spin with reference to both single- and multi-electron atoms. The lab will reinforce the lecture topics through both computer simulations and experiments to illustrate the use of quantum mechanics in spectroscopy.

*Prerequisites: Chemistry 1202, Mathematics 2207 and Physics 2201 with grades of C- or higher, or department consent.*

**Note:** Credit for both Chemistry 3602 and Physics 3602 will not be allowed.

### **CHEM 3801 – Nuclear Chemistry**

(3 credits) 3 hours lecture, 1 hour tutorial, 2 hours lab

This course is a study of the models, applications, and politics of nuclear science. Topics covered will include quantitative and qualitative descriptions of nuclear chemistry; the nuclear politics of warfare, global energy security, and reactors; nuclear medicine; and cosmology. The laboratory component includes both data analysis exercises and formal discussions on the role of nuclear technology in our world.

*Prerequisite: Chemistry 1202, Physics 1212 and Mathematics 1202, all with a grade of C- or higher.*

### **CHEM 3802 – The Science and Politics of Nuclear Energy**

(3 credits) 3 hours lecture, 1 hour lab

This course is designed for students with an interest in how nuclear energy impacts our world. Students will explore the science, politics, and policies surrounding nuclear technology in Canada and abroad. Lecture topics include nuclear warfare, classification of radiation, nuclear reactors in Canada, nuclear politics, global energy security, and the future of nuclear energy.

*Prerequisites: GNED 11XX, and GNED 13XX*



### **CHEM 4213 – Drug Discovery**

(3 credits – TG) 3 hours lecture

This course illustrates the interrelation of Chemistry and Biology in the process of drug discovery and development. Topics include methods of lead discovery and optimization, classes of drug targets, structure-activity relationships and bioisosterism, and radiopharmaceuticals. Concepts will be illustrated using the development of several clinical drugs as examples.

*Prerequisite: Chemistry 3103 with a grade of C- or higher.*

*Pre or Corequisite: Biology 4212.*

### **CHEM 1199, 1299 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## **CHILD AND YOUTH CARE COUNSELLOR (CYCC)**

### **CYCC 1110 – Fundamental Skills in Interviewing**

(3 credits) 3 hours lecture

This course emphasizes the acquisition of skills necessary to interview individuals on a one-to-one basis. Students' attitudes towards the helping relationship and strategies for facilitating relationships will also be explored. Students will learn basic communication skills and styles and be challenged to create goals related to their own communication style.

**COMM 1620 – Foundations of Graphics**

(3 credits) 3 hours lecture, 1 hour lab

An inquiry into the foundations of graphics as they relate to visual communication and visual problem solving. The goal is to develop an understanding of the inventive potential of form to create meaning. The emphasis will be on developing this understanding through an iterative process of research, practice, and analysis. Students will interpret project criteria and produce visual solutions for specific assigned problems. Emphasis will be placed upon original concept development and the use of formal design principles.

*Pre or Corequisite: Communications 1610 and 1600.*

**COMM 1661 – Technical Writing I**

(3 credits) 2 hours lecture, 1 hour tutorial

Examination of the principles and techniques of technical writing. Through analysis of selected technical prose and directed practice in writing, students will develop competence in the presentation of technical information for a variety of audiences. Technical writing includes a wide range of purposes and forms. This course covers, but is not limited to the principles of analysis, process, definition; progress, recommendation, and research reports; proposals and memoranda; transitions, and the mechanics of clear and precise statements. Additional topics will include forms and styles of technical description, procedures, business plans, policies and an introduction to the integration of text and graphics.

**COMM 1700 – Journalism in Society**

(3 credits) Blended delivery, 2 hours lecture and 1 hour online

Journalism is a product of social interaction and is shaped by a range of societal forces. Through a focus on the concept of the news agenda, students will consider the nature of news, the structures and conventions that shape how journalists gather and present news, the role news plays in democratic societies, the importance of ethical and professional practice considerations, and the influence of external 'voices' on the decisions journalists make daily.

**COMM 1707 – Journalism Elements**

(3 credits) 6 hours lecture / tutorial combined, and one hour online.

This multifaceted and multidisciplinary course will introduce students to the goals, structure and craft of twenty-first-century broadcast, photo, and print journalism. Work will include researching, reporting, writing and illustrating news stories on events and developments in local communities. An online component will focus on grammar development and current events. Students will be encouraged to adopt reflective and creative approaches to the development of their skills, knowledge and abilities.

**COMM 1709 – Journalism Practice**

(3 credits) 6 hours lecture / tutorial combined, and one hour online.

Having been introduced in Journalism Elements to the multifaceted and multidisciplinary nature of contemporary journalism, student journalists will now complete significant projects in broadcast, photography and print. An online component will focus on Canadian Press style rules and the program's ethical practice policy. Each student will complete an electronic portfolio as a showcase of their work, and as an archive of reflection on their development and learning as a journalist.

*Prerequisite: Communications 1707.*

**COMM 1720 – Managing Digital Media**

(3 credits) 3 hours lecture and tutorial combined

With the potential for any one news story to be edited for use in a variety of ways, and presented in a variety of formats, it is imperative that journalists understand the demands, legal implications and structure of digital file creation, alteration, movement and management. Using media production software, and with a focus on file management, students in this course will use their own work to create a range of media files, and store and retrieve these files for an online production project.

*Prerequisite: Communications 1707.*

**COMM 1841 – Introduction to Public Relations**

(3 credits – TG) 2 hours lecture, 1 hour tutorial

This course will provide students with an overview of the field of public relations and environments in which practitioners work. Public relations will be considered from the perspective of human communication theories. Students will also learn the history and role of public relations in different organizational settings, and all key components of the public relations process from both a theoretical and practical point of view. Issues facing the practitioner and the industry will also be discussed.

**COMM 1845 – Interpersonal Communications**

(3 credits – TG) 3 hours lecture

This course introduces the fundamentals of interpersonal communications with a focus on 'influencing with integrity'. Students will practice communicating one-on-one and in small groups; learn effective listening and conflict resolution skills; appreciate differences in others; and examine personal values, intentions and behaviours.

**COMM 1849 – Applied Writing I for Public Relations**

(3 credits) 2 hours lecture, 2 hours tutorial

This course will introduce students to intermediate-level elements of writing for specific communications disciplines. Considerations of audience, purpose and technique in media will be examined for a variety of writing assignments in public relations.

*Perequisite: Communications 1841.*

**COMM 2500 – Introduction to Communication Studies (formerly ACOM 2500)**

(3 credits – TG) 3 hours lecture and tutorial combined

When we consume information or communicate with others we are sharing and assessing facts, ideas, opinions, and biases. In doing so we are developing a sense of who we are as individuals, and we're also making decisions about how our world functions. This course will introduce students to the discipline of Communication Studies, and permit examination of a range of communication theories, which describe these dynamic social and personal processes.

**COMM 2501 – Media History and Contemporary Issues**

(3 credits) 3 hours lecture and tutorial combined

From the printing press to the Internet, this course examines the development of the communications media, including the 19th-century beginnings of modern journalism, the development of public relations, and the evolution of corporate media and specialized document design and production. Media issues of importance when the course is presented will be considered and addressed by student teams.

**COMM 2663 – Rhetoric**

(3 credits) 3 hours lecture

This course gives students the opportunity to refine their writing skills by applying the principles of rhetoric and stylistics. To this end, analysis of such realms of discourse as advertising, magazine articles, fiction, political speech and debate will be emphasized to understand how these forms of communication achieve their effects. The rhetorical analysis of texts will, moreover, apply to students' own writing. Rhetorical theory and application will, in other words, be closely linked to ensure that students understand, through practice, the stylistics resources available in language that make ideas clear, cogent and compelling.

*Prerequisite: Communications 1661.*

**COMM 2666 – Typography**

(3 credits) 2 hours lecture, 2 hours lab

Introduction to the topic of typography and examination of the role of type in visual communication and information design through normative and conceptual relationships. Topics will include principles of typography and layout, concept development, and the historical foundations of typography. Students will use typographical principles and methods of visual organization to solve assigned communication problems.

*Prerequisite: Communications 1600, 1610 and 1620*

### **COMM 2667 – Information Architecture**

(3 credits) 3 hours lecture

Introduction to the principles and best practices of effective information design for both print and electronic media. The course includes such topics as information types, information categorization and hierarchies, types of organizational patterns, message and document genres, structural markup languages, structured information design and technologies, content management, and single sourcing.

*Prerequisite: Communications 1661 and 1600.*

### **COMM 2670 – Programming for Information Designers**

(3 credits) 2 hours lecture, 1 hour tutorial

Discussion of, and practice with, programming techniques with emphasis on web-based applications. Elements of good style and usability are introduced.

*Prerequisite: Communications 1610*

### **COMM 2673 – Introduction to Digital Layout**

(3 credits) 2 hours lecture, 2 hours lab

An introduction to digital layout and presentation graphics. Students will learn how to develop and organize information to be used for a variety of print media. A series of problems based on the relationship between typography and imagery will be assigned.

*Prerequisite: Communications 1620, 1610 and 2666*

### **COMM 2680 – Intercultural Communication in Information Design**

(3 credits)

This course serves as an introduction to the field of intercultural communication and the cultural aspects and effects of information design. This course considers the field of social semiotics and the theoretical and practical study of these cultural aspects in areas including, but not limited to, discourse in place, social semiotics and the grammar of visual design.

*Prerequisite: Communications 2666 and 2667*

### **COMM 2803 – Applied Visual Communication for Public Relations**

(3 credits) 3 hours lecture

COMM 2803 is a survey of major issues, techniques, and strategies in visual communications. Principles of graphic communication, design and layout will be applied to the production of a variety of print-based media including newspapers, newsletters, reports, manuals and brochures, using current computer-based page-layout and graphics programs. Typography and the uses of paper as they affect the options for printing processes will be examined and applied.

*Prerequisite: Consent of the department.*

### **COMM 2849 – Applied Writing II for Public Relations**

(3 credits) 2 hour lecture, 2 hours tutorial

In this course, students move beyond the basics in public relations writing to focusing on specific genres including employee communication, briefs, advertising copy, speeches and corporate profiles. As well students will learn to write/deliver persuasive speeches, develop usable web content, and will hone their newswriting and interviewing skills. Students also learn the basics of writing for publication.

*Prerequisite: Communications 1849.*

### **COMM 3500 – Media, Culture and Communication Theory**

(3 credits) 3 hours lecture and tutorial combined

This senior level course examines the role of communications in creating and explaining everyday cultural practices, and the larger systems that structure them. Students will consider multiple theories of communication, derived from various perspectives, to address the concept of subjectivity, and how the communication of information and ideas shapes our understanding of, and response to, our social and personal environments. Students will apply theories to specific artifacts and/or issues that they have defined and researched.

*Prerequisite: Communications 2500.*

### **COMM 3501 – Intercultural Communication**

(3 credits) 3 hours lecture and tutorial combined

Intercultural Communication examines communication among individuals of different cultural backgrounds, including the study of similarities and differences across cultures. The course will introduce students to key intercultural communication topics: communication and culture, linguistic differences, ecological influences on culture, the dimensions of cultural difference, stereotyping, and intercultural encounters, culture shock and adaptation.

*Prerequisite: Communications 2500.*

### **COMM 3503 – Communication in Organizations**

(3 credits) 3 hours lecture

This course is designed to help students think critically about communication in the context of organizations and the cultural components that affect communication effectiveness. Through theory-based lectures and experiential exercises, students will better understand the nature, goals, strengths and limits of organizational design.

*Prerequisite: Communications 2500.*

### **COMM 3600 – Usability**

(3 credits) 2 hours lecture, 2 hours lab

Study of the relevant research and practical application of usability testing as part of product development. Students will address complex information design issues and problems including legal documents, business forms, diagrams, transportation maps, statistical information, charts, graphs and tables, instructional materials, way finding systems, and computerized information systems. The course includes strategies for planning, conducting, and analyzing a test. Teams will conduct an expert (heuristic) evaluation and report results from an actual test in a usability lab using industry standard format.

*Prerequisite: Communications 1661 and 1610.*

### **COMM 3605 – Research in Information Design**

(3 credits) 3 hours lecture

Introduction to research methods used by practitioners and scholars in information design. Students explore the relationship between theory and research and learn how to design and carry out empirical studies using both quantitative and qualitative methods. Emphasis is placed on the research methods used in workplace settings to design user-centered information products and to test their usefulness and usability.

*Prerequisite: Communications 1600.*

### **COMM 3610 – Visual Communication for Information Designers I**

(3 credits) 3 hours lecture

Introduction to the principles of visual communication in the context of information design. The theoretical and historical issues of organizing and visualizing statistics, number, and/or complex relationships will be explored. Emphasis on conceptualization, visual diagramming, and analysis of subtle visual relationships including design and use of photographs and other pictorial materials will be developed, and current approaches to typography are examined.

*Prerequisite: Communications 1620, 1610 and 2666.*

### **COMM 3611 – Visual Communication for Information Designers II**

(3 credits) 3 hours lecture

This course builds upon the foundation established in Visual Communications I. Students explore advanced topics in effective graphic design in the context of information design.

*Prerequisite: Communications 3610.*



**COMM 3620 – Document Production I****(3 credits) 2 hours lecture, 2 hours lab**

This course focuses on the basic principles of document production relating to the principles of publishing. Publishing principles and practices, marketing problems, distribution methods and informational systems and techniques are examined. Students will be expected to produce a variety of documents and publications.

*Prerequisite: Communications 3600 and 3670.*

*Corequisite: Communications 3611.*

**COMM 3665 – Technical Writing II****(3 credits – TG) 3 hours lecture**

Introduction to intermediate-level elements of technical writing. Consideration of audience, purpose and technique in print and electronic media will be examined for a variety of writing needs. Technical communication business practices are also examined.

*Prerequisite: Communications 1661 and Communications 2667.*

**COMM 3670 – Project and Content Management****(3 credits) 3 hours lecture**

Introduction to project and content management. Content includes concepts, principles, and the inputs, outputs, tools and techniques necessary to take a project from inception to completion. Projects will be developed that are specific to the communication professions.

*Prerequisite: Communications 1600, 1841 or 1707.*

**COMM 3707 – News Reporting****(3 credits) 3 hours lecture /tutorial combined**

In their role as staff reporters for the journalism program community newspaper, students will practice reporting and writing news stories for print publication, and writing about the community, arts, business, and sports among a range of other news beats. CP Style, pitching stories, updating stories, and editorial responsibility will also be discussed and practiced.

*Prerequisite: Communications 1709.*

**COMM 3709 – News Editing and Reporting****(3 credits) 3 hours lecture /tutorial combined**

Student journalists in this course, in context of their work with the journalism program community newspaper, will consider more formally the role of editors, while continuing to develop their own reporting skills. Copyediting, section editing, and content planning will be discussed and practiced.

*Prerequisite: Communications 3707.*

**COMM 3717 – Specialized Writing****(3 credits) 3 hours lecture /tutorial combined**

Journalists need to present information to a variety of audiences and in a variety of ways. Students in this course will consider and practice such forms as long-form writing, in-depth profiles, editorial writing, and personal column writing.

*Prerequisite: Communications 3707.*

**COMM 3720 – Newspaper Production and Design****(3 credits) 2 hours lecture and 2 hours production laboratory**

Working with appropriate production software student journalists will consider design principles and production management of a newspaper, while practicing technical and content-based production processes, page design and layout as members of the journalism program newspaper production team.

*Prerequisite: Communications 1709 and 1720.*

**COMM 3727 – Visual Journalism****(3 credits) 3 hours lecture /tutorial combined**

Photography and graphics are essential elements of successful publications. In this course students will build on their understanding of the use of photo tools, software and graphics, through the production of news photography, news graphics, multimedia and journalism focused special photo projects; all in context of their work on the journalism program newspaper.

*Prerequisite: Communications 1709.*

**COMM 3729 – Online Writing, Editing and Production****(3 credits) 2 hours lecture and 2 hours tutorial**

Building on work completed in as a member of the journalism program newspaper's editorial team, student journalists in this course will plan, produce and edit a range of original online journalism for presentation on an online news site, while also considering such issues as the design, nature and goals of online journalism.

*Prerequisite: Communications 3709, 3720 and 3727.*

**COMM 3735 – Ethics, Law and Media****(3 credits) 3 hours lecture and tutorial combined**

The course considers ethics and law in relation to the media, and their link to democracy and our political institutions, through consideration of how the justice system functions, and of ethical and legal issues that routinely confront journalists and media organizations.

*Prerequisite: Communications 2501.*

**COMM 3737 – Research Design and Methodology****(3 credits) 3 hours lecture and tutorial combined**

Journalists are presented daily with the results of polls, surveys, clinical trials and other research projects by individuals and organizations seeking to have this information published or broadcast. Students in this course will consider structural and ethical aspects of how such projects are organized, including issues of reliability and generalization, and an array of theoretical and epistemological approaches used to conduct research in the social sciences.

*Prerequisite: Communications 2500.*

**COMM 3740 – Broadcast Reporting****(3 credits) 3 hours lecture /tutorial combined**

Student journalists in this course will undertake the production of high-quality broadcast news stories, including practice in shooting and editing video in a digital context. Discussion of the goals of broadcast news reporting in contemporary practice, and detailed analysis of the process of producing television news stories, provide the basis for work done in tutorials.

*Prerequisite: Communications 1709 and 1720.*

**COMM 3747 – Broadcast News Production****(3 credits) 3 hours lecture /tutorial combined**

Student journalists in this course will prepare broadcast news reports, features and other elements of a news program. The course will feature the production of an online broadcast news magazine for which students will fill all editorial roles including work on air as presenters, and behind the scenes as members of a production team.

*Prerequisite: Communications 3740.*

**COMM 3797 – Special Topics in Journalism****(3 credits) 3 hours lecture and tutorial combined**

The content of this course will vary according to the needs and goals of the specific student group involved, but will offer material appropriate to the consideration of new forms of media and their impacts.

*Prerequisite: Consent of the program.*

**COMM 3799 – International Journalism Projects****(3 credits) 3 hours tutorial and production lab**

The content of this course will be based on journalism project work completed in an international context, and result in the production of journalism products appropriate to the needs and goals of the specific student group involved.

*Prerequisite: Consent of the department.*

**COMM 3841 – Media Relations****(3 credits) 1 hour lecture, 2 hours tutorial**

This course examines the relationship between public relations and the media. Through work on a client project, students learn about the importance of strategic media planning and practice writing public service announcements (PSAs), news releases, feature articles and creating media kits. Students participate in a mock news conference and receive media training.

*Prerequisite: Communications 1841, 1849 and 3849.*

**COMM 4691 – BCMM Information Work Experience**

To expand both their skills and understanding of the communication industry, Information Design students are encouraged to complete two non-credit semester-long Work experiences (with a 12 fulltime work week minimum) in the communications field during their program, but are required for graduation purposes to complete one such work experience. The student must receive a grade of Satisfactory. Work experiences in print, photo, online and communications may be taken at any point following semester four. **Note:** Students may complete this non-credit work experience up to three times. Formal assignments will include a detailed report and analysis of the work experience. Work experience fulfill degree requirements and are assigned “pass/fail” grades. Work experience terms integrate academic studies and work experience with participating employers.

*Prerequisite: Successful completion of all core courses in years one and two of the degree and 30 Credits.*

**COMM 4692 – Information Design Work Experience II (optional)**

To expand both their skills and understanding of the communication industry, Information Design students are encouraged to complete a second non-credit semester-long work experience (with a 12 fulltime work week minimum) in the communications field during their program. The student must receive a grade of Pass.

*Prerequisite: Communications 4691 and departmental approval.*

**COMM 4707 – Editorial Board**

(3 credits) 3 hours lecture and tutorial combined

Senior student journalists will serve on the editorial board of the journalism program’s community newspaper, and play a central role in its ongoing development by participating in the editorial design of the publication, while also considering and practicing leadership and team-building skills required in professional journalism environments.

**Note:** While offered in more than one semester this course may be taken only once for credit.

*Prerequisites: Communications 3709, 3720 and 3729.*

**COMM 4709 – Public Affairs Reporting**

(3 credits) 3 hours lecture and tutorial combined

Student journalists will investigate and report on public policy issues or contemporary social concerns, using advanced research techniques, and with an eye toward completing a comprehensive journalism project on a topic to be determined.

**Note:** Enrolment is limited to up to ten students per semester who submit to the program chair a detailed proposal at least one semester in advance.

*Prerequisites: Communications 3709, 3717 and 3737.*

**COMM 4711 – Public Affairs Reporting II**

(3 credits) 3 hours lecture and tutorial combined

Student journalists will investigate and report on public policy issues or contemporary social concerns, using advanced research techniques, and with an eye toward completing a comprehensive journalism project on a topic to be determined.

**Note:** Enrolment is limited to up to ten students per semester who submit to the program chair a detailed proposal at least one semester in advance. With chair permission, a student may take both ACOM 4709 and 4411 to accommodate a preplanned yearlong project.

*Prerequisites: Communications 3709, 3717 and 3737.*

**COMM 4717 - Magazine Writing, Editing and Production**

(3 credits) 3 hours lecture and tutorial combined

Student journalists will consider the goals and requirements of designing, writing and editing mainstream and trade publications, with consideration of issues in feature writing, researching and fact-checking. Students will also produce a print magazine as a focus of their coursework.

*Prerequisites: Communications 3709, 3720 and 3717.*

**COMM 4727 – Photojournalism Projects**

(3 credits) 3 hours lecture and tutorial combined

Senior student journalists, with specific and previously demonstrated interests in photojournalism, will discuss the processes and requirements of producing a major photojournalism effort. Each will then design and complete a major project to advance their skills and portfolios.

*Prerequisites: Communications 3727 and 3729.*

**COMM 4729 – Multimedia Projects**

(3 credits) 3 hours lecture and tutorial combined

Multimedia implies the use of more than one type or form of media in the design of a journalistic, corporate or educational project. Students in this course will consider the appropriate use of multimedia, beginning with audience needs, by undertaking a project of their own design from conception to completion.

*Prerequisites: Communications 3727, 3729 and 3747.*

**COMM 4737 – Research Projects**

(3 credits) 3 hours lecture and tutorial combined

Working in teams, students will design and complete significant research projects that focus on media issues, using a range of research methodologies appropriate to their goals, such as content analysis, surveys and focus groups. These projects will be published through an online journal established by the journalism program.

*Prerequisite: Communications 3737.*

**COMM 4747 – Broadcast Projects**

(3 credits) 3 hours lecture and tutorial combined

Senior student journalists with a specific and previously demonstrated interest in broadcast journalism will develop, produce and present a number of programs for broadcast on significant and timely community issues through online programming. Treatment possibilities include feature reports, documentaries, talk shows and public forums.

*Prerequisite: Communications 3747.*

**COMM 4757 – Corporate Communications**

(3 credits) 3 hours lecture and tutorial combined

Major companies invest substantial resources in communicating internally and externally to ensure employees/clients/customers receive timely information. Students will examine the structure and context of corporate communications, while also practicing the use of some specific corporate communication tools.

*Prerequisite: Communications 3735.*

**COMM 4759 – The Business of Media**

(3 credits) 3 hours lecture and tutorial combined

Revenue generation is essential to financial health of media organizations. Student journalists in this course will consider the goals and structure of advertising sales departments, issues in budgeting, and the value and design of promotional and audience development campaigns.

*Prerequisites: Communications 3720 and 3747.*

**COMM 4767 – Media and Technology**

(3 credits) **Blended Delivery: 2 hours lecture and one hour online**

Technological change routinely alters the way we understand and use communication tools. Students in this course will consider the history, general nature and impact of technological change on information and the media, with consideration of the issues, trends and communication devices current during the semester in which the course is offered. Participants will also write for the program’s online magazine on the development and use of technology.

*Prerequisites: Communications 3500 and 3729.*

### COMM 4790 – Workplace Issues and Work Experience Preparation Seminar

This mandatory non-credit preparation seminar for the student's work experience will examine conditions and issues, which may arise in the workplace, and the responsibilities and rights of employers and employees. Potential employers and working journalists will be invited to present their perspectives and expectations as students develop resumes, portfolios and prepare to apply for work opportunities in a subsequent semester. The student must receive a grade of Pass.

**Note:** Must be completed as preparation for and in advance of required internship.

### COMM 4791 – Journalism Work Experience I (required)

To expand both their skills and understanding of the communication industry, journalism students are encouraged to complete two non-credit semester-long work experiences (with a 12 full time work week minimum) in the communications field during their program, but are required for graduation purposes to complete one such work experience. The student must receive a grade of Pass. Work experiences in print, photo, online and communications may be taken at any point following semester four. Broadcast and Internet-based work experiences may be taken at any point following semester six.

*Prerequisite: Successful completion of all core courses in years one and two of the degree. Students considering a broadcast internship need first complete Applied Communications 3740, 3747 and receive departmental approval.*

### COMM 4792 – Journalism Work Experience II (optional)

To expand both their skills and understanding of the communication industry, journalism students are encouraged to complete two non-credit semester-long work experiences (with a 12 fulltime work week minimum) in the communications field during their program, but are required for graduation purposes to complete one such experience. The student must receive a grade of Pass. Work experiences in print, photo, online and communications may be taken at any point following semester four. Broadcast and Internet-based work experiences may be taken at any point following semester six.

*Prerequisite: Communications 4791 and departmental approval.*

### COMM 4890 – Public Relations Workplace Issues and Preparation Seminar

(Non-Credit) 1.5 hours lecture

This mandatory, non-credit preparation seminar for work experience, will examine conditions and issues which may arise in the workplace and the responsibilities and rights of employers and employees. Potential employers and working public relations professionals will be invited to present their perspectives and expectations as students develop resumes and portfolios and prepare to apply for work opportunities in a subsequent semester. This seminar must be completed in advance of, and in preparation for, the required work experience placement.

### COMM 4891 – Public Relations Work Experience I

The work experiences required for the public relations major in communication studies offers students the opportunity to integrate the theory and practice of public relations learned in the classroom to supervised work experience in a public relations/communications management setting. Students need complete two such work experiences for graduation purposes, and must receive a grade of Pass.

*Prerequisite: Successful completion of the following courses or their equivalents: Computer Science 1205; Communications 1841, 1849, 2803, 2849, 3841, 3855, 3851, 3847; Management 2131; 150 hours of paid or volunteer public relations experience; departmental approval.*

### COMM 4892 – Public Relations Work Experience II

The work experiences required for the public relations major in communication studies offers students the opportunity to integrate the theory and practice of public relations learned in the classroom to supervised work experience in a public relations/communications management setting. Students need to complete two such work experiences for graduation purposes. The student must receive a grade of Pass.

*Prerequisite: Communications 4891 and departmental approval.*

### COMM 1199, 1299 – Directed Readings

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## COMPUTER SCIENCE (COMP)

### COMP 0110 – Computer Information Processing

(0 credits)

This is a credit free upgrading course; special fees apply. This is an introductory computer course directed at novice students. It introduces the basic computer terminology and concepts to students while at the same time giving students a very clear and conceptual understanding of how the computer functions. Students will learn how to work in the Window 95 environment, concepts of Windows, Word Processing using Microsoft Word, Electronic Spreadsheet applications using Microsoft Excel. Some of the basic functions of the Internet in relation to sending and receiving e-mail, as well as some basic information searches.

**Note:** Students with credit in high school computer 10, 20, or 30 courses should not register in this course.

### COMP 1001 – Introduction to Computer-Based Problem Solving for the Sciences

(3 credits) 3 hours lecture, 2 hours tutorial

Computers are an essential tool in contemporary scientific practice. This course provides the students with a foundation in algorithmic thinking as well as exposure to a graphical programming environment. Students also receive significant practice in scientific problem-solving and modeling using common desktop productivity tools.



**Note:** Only one of Computer Science 1001 and 1501 can be used to satisfy program requirements.

### COMP 1171 – Introduction to Computer Systems and Applications

(3 credits) 3 hours lecture, 2 hours lab

This course is intended for Computer Information Systems students, and covers introductory concepts in more depth than a course for non-majors. It introduces how Information Technology is typically used in organizations and how this technology can be applied to solve business problems. Students create non-trivial spreadsheet applications and design and develop a realistic business database application. They develop practical and conceptual skills in this software and gain an understanding of how it is used in a business environment.

### COMP 1202 – Database Design and Development

(3 credits) 2 hours lecture, 2 hours lab

This course is an introduction to data management for non-major students. It covers database design and development techniques for building reliable, effective and maintainable data management applications with microcomputer spreadsheet and database packages.

*Prerequisite: Computer Science 2203.*

*Pre or Corequisite: Computer Science 1205 or consent of the department.*

### COMP 1205 – Introduction to Computing for Public Relations

(3 credits) 2 hours lecture, 1 hour tutorial, 1 hour lab

This course is designed to develop the knowledge and skills required to be a proficient user of applications relevant to the communications field. It focuses on configuring a windows desktop environment, file management, effective use of the Internet and the word processing skills required by professional writers. Spreadsheets and presentation software are also introduced.

**Note:** Credit will be allowed for only one of Computer Science 1205, 1207, 1209, 1213 and 2203.

### **ECON 2267 – Agricultural Economics (formerly ECON 3367)**

(3 credits – TG) 3 hours lecture

Principles which determine the production and price of agricultural products, analysis of the problems in farming, such as costs, technological developments, demand and supply changes, resource combination, enterprise selection, scale of operation, seasonal, cyclical and secular changes in prices, underlying principles, concepts and factors that control efficient marketing and merchandising of agricultural products.

*Prerequisite: Economics 1101 and 1103 or consent of the department.*

### **ECON 3305 – History of Economic Thought**

(3 credits) 3 hours lecture

Studying the contributions of leading economic thinkers, from Adam Smith to John Maynard Keynes, this course examines the various perspectives that have influenced the development of economic thought. This course will analyze these economic theories and address some of the implications for policy researchers.

*Prerequisites: Economics 1101 and 1103.*

### **ECON 3395 – Introduction to Applied Econometrics (formerly ECON 2295)**

(3 credits – TG) 3 hours lecture

The course introduces techniques for quantifying economic relationships. Topics include estimation and testing of hypotheses, forecasting and construction of prediction intervals, use of appropriate functional forms, detection and correction of measurement problems, model specification, and use of statistical software programs for single equation regression analysis.

*Prerequisite: Economics 1101 and 1103, and one of the following: Policy Studies 2209, Mathematics 1224, Management 2262; or consent of the department.*

### **ECON 3199, 4199 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## **ECOTOURISM AND OUTDOOR LEADERSHIP (ETOL)**

### **ETOL 2010 – Ecotourism and Outdoor Leadership DirectedField Studies**

(15 credits)

This work-term provides students with the opportunity to apply ecotourism and outdoor leadership theory in a private, public or not-for-profit environment. The work-term is designed to allow students to demonstrate proficiency at an introductory level in leadership applications in ecotourism and outdoor leadership environments. Students will be required to submit a work-term submission report for work-term advisor approval prior to embarking on the first work-term.

*Prerequisite: Ecotourism and Outdoor Leadership 2201, 2203, 3301, 3303 and 3307.*

### **ETOL 2011 – Practicum I**

(3 credits) 250 hours of practicum

This is a formal work experience with an assigned organization. Participants will be required to participate in the specified hours of practicum and to complete assignments. Students will be accepted into the practicum upon completion of the course Prerequisites and/or consent of the department chair. The course is limited to ETOL students enrolled in the Bachelor of Applied Ecotourism and Outdoor Leadership Degree Program who have successfully completed, or are concurrently enrolled in, the core courses.

*Prerequisites for the Practicum include the following courses: Ecotourism 2201, 2203, 3305, 3307 and Recreation Studies 1217 and 1247 with an overall grade point average of 2.0. Specific practicum assignments may require some students to hold current certification in Wilderness and Remote Emergency Response and CPR.*

### **ETOL 2201 – Foundations of Outdoor Leadership**

(3 credits) 3 hours lecture (includes 22 hours fieldwork)

This course will survey the history, philosophy, rationale, benefits and recreational opportunities of outdoor leadership. Students will become familiar with the organization, governance and scope of outdoor leadership. Participation is required in one weekend of fieldwork.

### **ETOL 2203 – Sustainable Tourism**

(3 credits – TG) 3 hours lecture

This course will study the development of the ecotourism industry. Students will examine the political, economic and management issues and trends related to ecotourism in Alberta, Canada and internationally. Students will initiate the development of a personal portfolio in this course.



### **ETOL 2401 – Ecotourism Facilitation Skills**

(3 credits) 3 hours lecture

This course studies the knowledge and skills of leading groups in global ecotourism environments. Students will study teaching and learning methodologies, learning styles, interpretation, group facilitation, moderator techniques, needs assessment surveys and program assessment methods.

*Prerequisite: Ecotourism and Outdoor Leadership 2203, Applied Communications 2245 and Recreation Studies 1247.*

### **ETOL 3010 – Ecotourism and Outdoor Leadership Directed Field Studies**

(15 credits)

This work-term provides students with a further opportunity to apply their ecotourism and outdoor leadership theories and skills studied during the previous semesters and to continue to build upon their experience from Ecotourism and Outdoor Leadership 2010. It is expected that students will diversify their work experience. Students will be required to submit a work-term submission report for work-term advisor approval prior to embarking on this work-term. Goals and strategies will be reviewed by a faculty member prior to the work-term.

*Prerequisite: Ecotourism and Outdoor Leadership 2010.*

### **ETOL 3011 – Practicum II**

(9 credits) 450 hours of practicum

This practicum experience provides students with a further opportunity to apply the Ecotourism and Outdoor Leadership theories and skills studied during the previous semesters and to continue to build upon their experience from Ecotourism and Outdoor Leadership 2011. It is expected that students will diversify their experience relative to the past experience. Students will be required to submit a practicum plan to the ETOL practicum coordinator prior to embarking on the practicum placement. Goals and strategies will be reviewed by a Faculty Advisor prior to the work-term. Students will be accepted into the practicum upon completion of the course Prerequisites and/or consent of the department chair.

*Prerequisite: Ecotourism and Outdoor Leadership 2011.*

### **ETOL 3303 – Expedition**

(3 credits – TG) 1 hour lecture, 96 hours fieldwork

This course is designed to familiarize students with a variety of outdoor activities, such as cycle touring, canoeing and kayaking, backpacking, caving, rock climbing and mountaineering. The emphasis will be on experiential methods of learning and practical application of leadership skills. Participation is required in a 10-day expedition.

*Prerequisite: Ecotourism and Outdoor Leadership 2201, Physical Education 2404, 2410, 2414, 2416 and 2418, or equivalent outdoor experience and consent of the department. Additionally, students must provide proof of valid Emergency Wilderness Response Certification at the time of the Expedition.*

**Note:** Students will be responsible for payment of personal subsistence costs associated with the fieldwork. Ecotourism and Outdoor Leadership 3303 will commence prior to the start of the Fall Semester with a 10-day expedition in late August.

**ENGR 1263 – Orientation to the Engineering Profession II**  
(1 credit – TG) 1 hour lecture

This course is a continuation of ENGR 1261 and is qualitatively similar to ENGR 1261 in terms of the course content, how the content is presented and how it is evaluated (pass/fail). This course is intended for students who wish to transfer to the University of Alberta engineering program.

**ENGR 1271 – Engineering Design and Communication I**  
(3 credits – TG) 3 hours lecture, 2 x 1.5 hour tutorials

This course introduces the principles of engineering design, visual communications (technical drawing/sketching/), written communications (technical writing) and leadership/project management. Students achieve basic competency in these areas through theoretical and applied assignments, small projects and team-based activities. Students learn about and work with the engineering design process, various technical writing styles/documents and various forms of graphical presentation such as multi-view orthographics.

**ENGR 1273 – Engineering Design and Communication II**  
(2 credits – TG) 1.5 hours tutorial, 3 hours lab

This course is a continuation of Engineering 1271. Students will improve on their basic competency in engineering design, visual and written communication primarily through hands-on, team-based, open-ended design projects. In this course, one large project will be undertaken in order to develop the design and communication skills that the students will require for success as engineers.

*Prerequisite: Engineering 1271 with a grade of C- or higher.*

*Pre or corequisite: Engineering 1263.*

**ENGR 1303 – Electric Circuits and Machines**

(3 credits) 3 hours lecture, 1 hour tutorial, 3 hours lab

This course introduces current, voltage and power, Kirchoffs' current and voltage laws, capacitors, electricity and magnetism fundamentals as applied to circuits and machines, inductors, circuits and systems, instrumentation, circuit design, DC and AC circuit analysis, DC and AC machines, and first order circuits and transient analysis, from both a theoretical and an applied standpoint.

*Prerequisite: Mathematics 1217 or equivalent, and Engineering 1205 or equivalent, both with a C- or higher.*

**ENGR 3309 – Heat and Mass Transport**

(3 credits) 3 hours lecture, 3 hours lab

Energy flows and material flows are crucial to the study of industrial systems. This course introduces concepts necessary to the study of conservation and transport of energy, momentum, and mass. Topics will include: aspects of fluid-flow, thermodynamics, conduction/diffusion transport, convective transport, and radiative transport. Applications of interest to industrial ecology which involve fluid-flow, heat transfer, and mass transfer will be studied.

*Prerequisite: Chemistry 2209 and 2210 and Mathematics 3307 with a C- or higher.*

*Pre or Corequisite: Mathematics 3101.*

**ENGR 3319 – Statistics for Engineering**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course involves: the presentation and description of data; introduction to probability theory; Bayes Theorem; discrete and continuous probability distributions; estimation; sampling distributions; tests of hypotheses on means; variances and proportions and simple linear regression and correlation. Applications are chosen from engineering practice.

*Prerequisite: Mathematics 1219 with a C- or higher.*

**ENGR 3349 – Dynamics**

(3 credits – TG) 3 hours lecture, 1.5 hours tutorial

This course introduces the basic principles of Vector Mechanics as applied to Dynamics. The course content emphasizes kinematics and kinetics of particles and rigid bodies, rectilinear and curvilinear translation, general plane motion, rotation, relative motion, force, mass, acceleration, friction, impulse, momentum and conservation of linear and angular momenta. Evaluation of knowledge and problem solving skills takes place through written assignments, quizzes, midterms and an exam.

*Prerequisite: Mathematics 1217 or equivalent, and Engineering 1205 or equivalent, both with a C- or higher.*

**ENGR 1199, 1299 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

**ENGLISH (ENGL)**

For Film Studies courses, please see FILM STUDIES

**ENGL 0115 – Writing and Communication Skills**  
(0 credits) 4 hours lecture

This is a credit free upgrading course; special fees apply.

This course provides students with opportunities to improve their English language communication skills provided they are adequately prepared to study English at a high school level. This is not an ESL course. Instruction will emphasize development of grammar, spelling, vocabulary and punctuation. Students who successfully complete this course or its equivalent are adequately prepared to take English 0130 or English 0212.

**ENGL 0130 – Literature and Composition**

(0 credits) 4 hours lecture

This is a credit-free upgrading course; special fees apply. Students write paragraphs and essays of various lengths based upon ideas derived from the study of literary works and from other sources.

*Corresponding Alberta High School Equivalent: English 30-1.*

*Recommended Preparation: English 0115, English Language Arts 20-1 or English Language Arts 30-2 or equivalents.*

**ENGL 0212 – Introductory Composition**  
(formerly ENGL 1112)

(3 credits – TG) 4 hours lecture

This course is designed for students whose understanding of the elements of English grammar and the mechanics of good writing needs reinforcing. Introductory Composition will provide a review of grammar and the mechanics; as well, it will focus on the structures of sentences, paragraphs and essays. Along with written assignments offering practice in composition, the course will emphasize discussion and analysis of readings. Instruction in research methods will also be provided as preparation for a research paper.

**Note:** Students must have passed English Language Arts 30-1, English Language Arts 30-2 or English 0115 to qualify for this course.

**ENGL 1101/GNED 1401 – Critical Writing and Reading**

(3 credits – TG) 4 hours lecture

This foundational composition course offered by the department of English focuses on effective writing styles for academic and wider social contexts. Students will respond to texts pertaining to a variety of disciplines and develop critical reading and thinking skills. Students will also refine their understanding and practice of the structures of writing.

*Prerequisite: English Language Arts 30-1 or equivalent with a grade of 60% or higher, or English 0212 with a grade of C or higher.*



### ENGL 3305 – Script Writing

(3 credits) 3 hours lecture

This course explores the theory and practice of writing for stage, screen, and live performance. Workshop exercises will focus on developing dramaturgical skills needed for writing dialogue, plotting action, using generic conventions, and developing characters. Students will have the opportunity to create their own plays, screenplays, or performance pieces.



*Prerequisite:* One of Film 2246 or 3345, or English 2256, 2257, 2264, 2265, 2266, or 2267.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3306 – History of the English Language

(3 credits – TG) 3 hours lecture

This course covers the development of English from Anglo-Saxon (or Old English) to Early Modern English in the seventeenth century. It includes a basic component of linguistics and an examination of manuscript culture and textual transmission.

*Prerequisite:* English 2210 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, or 2267.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3308 – The Novel from 1900 to Now

(3 credits) 3 hours lecture

Using critical theory to interrogate contemporary practice, this course examines the development of prose fiction from the beginning of the twentieth century to the present day. In particular, it considers how the novel, as both a literary and cultural form, mediates the aesthetic, intellectual, social, and political concerns of the twentieth and twenty-first centuries.

*Prerequisite:* One 2000-level English course.

### ENGL 3309 – Theatre and Performance from 1900 to Now

(3 credits) 3 hours lecture

This course examines the extent to which “all the world’s a stage.” Theatre and performance texts and theories will be used to illuminate key issues and ideas in contemporary culture such as ritual, realism, the absurd, the society of spectacle, subjectivity, and identity.

*Prerequisite:* One 2000-level English course.

### ENGL 3310 – Critical Theory and Cultural Studies

(3 credits) 3 hours lecture

How did English Studies fracture during the “theory wars”? This course historicizes the question by reading, in detail, influential and provocative thinkers of the 1960s, 1970s and 1980s. Topics might include the writings of Ahmad, Derrida, Ebert, Foucault, Haraway, hooks, Irigaray, Jameson, Kristeva, Lacan, Levinas, Said, Spivak, Zizek and others.

*Prerequisite:* English 2202

Note: Credit will be allowed for only one of English 2203 and English 3310.

### ENGL 3312 – Shakespeare: The Earlier Plays (formerly ENGL 2212)

(3 credits – TG) 3 hours lecture

This course examines selected plays written by Shakespeare during the first half of his career (ca. 1590-1599), with a focus on both language and theatrical conventions. Students will consider critical problems related to sources, dating, performance, reading, audience, censorship, publication, editing, reception and contemporary adaptation.



*Prerequisite:* English 2210 or 2211 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses..

**Note:** English 3312/3313 = U of C ENGL 312. English 3312 = Athabasca University ENGL 324. Credit will be allowed for only one of English 3312 and ENGL A324.

### ENGL 3313 – Shakespeare: The Later Plays (formerly ENGL 2213)

(3 credits – TG) 3 hours lecture

This course examines selected plays written by Shakespeare during the second half of his career (ca. 1600-1613), with a focus on his evolution as a dramatist, culminating in the later tragedies and romances. Students will consider critical problems related to sources, dating, performance, reading, audience, censorship, publication, editing, reception and contemporary adaptation.



*Prerequisite:* English 2210 or 2211 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

**Note:** English 3312/3313 = U of C ENGL 312. English 3313 = Athabasca University ENGL 325. Credit will be allowed for only one of English 3313 and ENGL A325.

### ENGL 3323 – Early Medieval Literature

(3 credits) 3 hours lecture

This course is a study of representative texts from the early medieval literary age, offering a range of popular genres from the Old and Middle English periods. Texts will be read in the original language, and instruction in the grammar, orthography and pronunciation of early medieval English will be provided.

*Prerequisite:* English 2210 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3324 – Literature in the Age of Chaucer

(3 credits) 3 hours lecture

This course examines a selection of representative texts produced during the Age of Chaucer (mid-fourteenth century to c. 1500), offering a variety of literary genres and diverse contexts. The texts will be read in the original language, with instruction in the grammar, orthography and pronunciation of Middle English provided.

*Prerequisite:* English 2210 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3330 – Restoration and Early Eighteenth Century Literature (formerly ENGL 4430)

(3 credits – TG) 3 hours lecture

Examining the first half of the Long Eighteenth Century, this course involves a study of the works of such writers as Pepys, Cavendish, Dryden, Montagu, Swift, Pope, Addison, Steele, Gay, Thomson, Gray, and the social and literary backgrounds that forged a new and lively literature of the Enlightenment.

*Prerequisite:* English 2210 or 2211 and one of English 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3331 – Later Eighteenth Century Literature (formerly ENGL 4431)

(3 credits – TG) 3 hours lecture

This course examines the literature from around 1750 to the end of the Long Eighteenth Century. Writers studied may include Boswell, Johnson, Cowper, Radcliffe, Edgeworth, Crabbe, Burney and Burns.

*Prerequisite:* English 2210 or 2211 and one of English 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3340 – Early Romantic Literature (formerly ENGL 4440)

(3 credits – TG) 3 hours lecture

This course examines British literature in the context of the various political and socio-economic changes from 1760 to 1815 and will familiarize students with key aspects of British Romanticism. Writers may include, among others, Wollstonecraft, Blake, Dorothy and William Wordsworth, Coleridge, and Austen.

*Prerequisite:* English 2210 or 2211 and one of English 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3341 – Later Romantic Literature (formerly ENGL 4441)

(3 credits – TG) 3 hours lecture

This course examines British Romantic writers from 1815 to mid-century. Among others, writers studied may include Byron, Mary Shelley, Percy Shelley, Hemans, and Keats.

*Prerequisite:* English 2210 or 2211 and one of English 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3342 – Early Seventeenth-Century Literature

(3 credits – TG) 3 hours lecture

This course studies literature in the historical and social contexts of the late Elizabethan and early Stuart periods. Readings may include texts by Donne, Herbert, Jonson, Lanyer, Wroth, and Herrick.

*Prerequisite:* English 2210 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3343 – Later Seventeenth-Century Literature

(3 credits – TG) 3 hours lecture

This course studies literature in the historical and social contexts of the Stuart period until the Restoration. Readings may include texts by Vaughan, Crashaw, Bradstreet, Philips, Marvell, and Milton.

*Prerequisite:* English 2210 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3344 – Victorian Realism and Social Reform (formerly ENGL 4444)

(3 credits – TG) 3 hours lecture

This advanced course examines British literature of the Victorian period (approximately 1830-1900) within a context of social critique exemplified primarily in narrative (fiction and poetry), but also non-fictional prose and drama. Writers studied include, among others, Carlyle, Tennyson, Mill, Dickens, Barrett-Browning, Eliot, and Hardy.

*Prerequisite:* English 2210 or 2211 and one of English 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.



### ENGL 3345 – Victorian Literary Aesthetics (formerly ENGL 4445)

(3 credits – TG) 3 hours lecture

This advanced course addresses the Victorian fascination with aesthetics by surveying various nineteenth-century movements and genres. Focusing on such groups as the Pre-Raphaelites, the Aesthetes, and the Symbolists, this course will examine Victorian (self-) invention, particularly in the realms of dramatic, lyric, and pictorial form, as a means to explore the role of art in society.

*Prerequisite:* English 2210 or 2211 and one of English 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.



### ENGL 3372 – Western Canadian Literature

(3 credits – TG) 3 hours lecture

Through representative texts, students will examine how writers' conceptions of the West alter over time, what constitutes a definition of "West," and how Indigenous and non-European authors create alternatives to Eurocentric narratives of western expansionism and frontiers. Students will also study how conceptions of region and landscape affect identity.

*Prerequisite:* English 2210 or 2211 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, or 2267.

*Recommended Preparation:* Three 2000-level English courses.

### ENGL 3382 – Textualities/Sexualities

(3 credits – TG) 3 hours lecture

This course examines both the body of the text and the text of the body. While reading the body as it is represented in writing, we will investigate such concepts as representation (including what has been erased or silenced), the gendered text, the imaginary and the limits of textualized sexualities.

*Prerequisite:* English 2202, 2203, 2216, 2219, or FILM 3345 or consent of the department.

*Recommended Preparation:* English 2210 and 2211.

### ENGL 3394 – The Graphic Novel

(3 credits – TG) 3 hours lecture

The graphic novel has recently emerged as a unique storytelling medium. This course focuses on both the theoretical bases of sequential art and the graphic novel's literary and aesthetic properties. Students will draw on a variety of modern and postmodern theories of texts to analyze specific graphic novels.

*Prerequisite:* English 2210 or 2211 and one of 2202, 2203, 2207, 2263, 2264, 2265, 2266, 2267 or FILM 3345.

*Recommended Preparation:* Three 2000-level English courses.

Note: Students cannot receive credit for both English 3394 and English 3329.

### ENGL 4401 – Select Topics in Themes, Forms, and Genres

(3 credits) 3 hours lecture

This advanced seminar explores the historical or cultural significance of a specific literary theme, form, or genre. Variable in focus, the course may concentrate on topics related, for example, to concepts of diaspora or beauty or disease; developments in satire or comedy or realism; approaches to the short story or sonnet or long poem.

*Prerequisite:* One 3000-level English course.

### ENGL 4410 – Select Topics in Medieval Literature, 650-1500

(3 credits – TG) 3 hours lecture

This advanced seminar engages students in a selection of poetic, prose, and dramatic works from the medieval period. Featured works may include Beowulf, the works of Chaucer, literature by and about women, Romances in poetry or prose, religious ecstasies, Arthurian legends, and Middle English lyrics.

*Prerequisite:* One 3000-level English course.

*Recommended Preparation:* English 3323 or 3324.

### ENGL 4420 – Select Topics in Early Modern Literature, 1450-1700

(3 credits – TG) 3 hours lecture

This advanced seminar engages students in a study of literature from the Early Modern Period, a survey that may include transitional texts between the Middle Ages and the Renaissance, a tracing of Romance from Roland to Quixote, Shakespearean and non-Shakespearean theatre, Milton's prose, 17th-century poetry, and women's writing.

*Prerequisite:* One 3000-level English course.

*Recommended Preparation:* English 3342 or 3343.

### ENGL 4440 – Select Topics in Literature of the Long Nineteenth Century, 1790-1917

(3 credits – TG) 3 hours lecture

This advanced seminar focuses on ideas, issues, or individuals important to the poetry, prose, and drama of the Romantic, Victorian, and Golden Ages. Varying from semester to semester, select topics may include (among others) Pre-Raphaelite poetry and painting, performance in nineteenth-century culture, and the literature of the New Woman.

*Prerequisite:* One 3000-level English course.

*Recommended Preparation:* One of English 3340, 3341, 3344, or 3345.

### **ENGL 4443 – Select Topics in Literature of the Long Eighteenth Century, 1660-1832**

(3 credits – TG) 3 hours lecture

This advanced seminar features a selection of works from the long eighteenth century. Texts may include those by the early novelists Bunyan, Defoe, Richardson, Fielding, or Sterne, feminist writers from Aphra Behn to Jane Austen, Restoration comedy through Romantic drama, or the satiric verse tradition leading to Romantic poetry.

*Prerequisite:* One 3000-level English course.

*Recommended Preparation:* One of English 3330, 3331, 3340, 3341.

### **ENGL 4446 – Select Topics in Literature of the Long Twentieth Century, 1865-Present**

(3 credits – TG) 3 hours lecture

This advanced seminar studies a selection of literary and other forms of cultural text produced between 1865 and the present. A national literature such as Canadian, American, or British may furnish the texts or a postcolonial approach may offer a study of African, Caribbean, Irish, or subcontinental Indian literature written in English.

*Prerequisite:* One 3000-level English course.

### **ENGL 5110 – Honours Seminar**

(3 credits) 3 hours lecture

This project-driven seminar involves advanced studies in literature and language. Given various practical opportunities for research, including an independent honours project, students will assess their scholastic experiences to generate analysis of English studies as a field of inquiry. They will also apply this understanding of English studies to specific texts and disciplinary debates.

*Pre or Corequisite:* One 4000-level English course.

**Note:** Enrolment restricted to students admitted to and enrolled in the English Honours Program.

### **ENGL 3199, 4199 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## **ENTREPRENEURSHIP (ENTR)**

### **ENTR 1232 – Entrepreneurship Studies**

(3 credits – TG) 3 hours lecture

This course introduces students from non-business programs to the key elements of starting up and operating a small business. Students will gain applied skills by preparing a business plan for a new enterprise. This business plan will enable students to market their own professional skills to prospective customers. Lectures will expose students to the entrepreneurial environment, marketing principles, legal issues, funding sources for a small business, and personnel issues.

### **ENTR 2010 – Directed Field Studies I**

(15 credits)

The work term provides students with an opportunity to apply entrepreneurial theory in a small business environment. Students in the Small Business Stream are required to either start a new business or work in their family business(es). Students in the International Stream are required to obtain a placement with a company that provides them with significant exposure to international business or start a new venture. Students starting a new venture may use the business plan created in Entrepreneurship 3333 as a basis for their Directed Field Study. Students, through journals, reports, discussions and faculty mentoring, will become skillful at both personal and situational analysis. The Directed Field Study is designed to allow individual work-experience and will require students to demonstrate proficiency in multi-disciplined business applications. Students will be required to submit a Directed Field Study submission report for Directed Field Study coordinator approval prior to embarking on the work-term.

*Prerequisite:* Entrepreneurship 3333 and Computer Science 1207.

### **ENTR 2015 – Directed Field Studies I for Sport and Recreation**

(15 credits)

This work-term provides students with the opportunity to apply business, entrepreneurship, sport and recreation theory in a private, public or not-for-profit environment. The work-term is designed to allow students to demonstrate proficiency at an introductory level in the field. Students will be required to submit a work-term submission report for work-term advisor approval prior to embarking on the first work-term.

*Prerequisite:* Marketing 2150, Entrepreneurship 2301, Physical Education 1203 and 1216 and Recreation Studies 1203 and 1247 or with department consent.

### **ENTR 2201 – Introduction to Entrepreneurship**

(3 credits – TG) 3 hours lecture

This course develops an awareness of the state of entrepreneurship in Canada. Students are introduced to elements of successful entrepreneurship, opportunity identification and assessment, economic development potential of small business in Canada, alternative forms of work arrangements in the new economy balancing an entrepreneurial lifestyle, determining what success means to each student, goal setting and visioning.

**Note:** Only one of ENTR 2201, 2301 or 3301 can be used to satisfy program requirements.

### **ENTR 2237 – Human Resources for Small Business**

(3 credits – TG) 3 hours lecture

This course will introduce students to the various elements of Human Resources management. In addition to the functional areas within HR, students will focus on the legal, ethical, and strategic HR management issues. Contemporary HR issues will also be discussed.

**Note:** Only one of Entrepreneurship 2237 or Human Resources 2170 can be used to satisfy program requirements.

### **ENTR 2301 – The Entrepreneurial Experience**

(3 credits) 3 hours lecture

This highly experiential course develops an understanding of entrepreneurship and builds awareness of the experiences an entrepreneur will have in the real world. Students will be exposed to industry entrepreneurs and participate in entrepreneurial competitions. A framework of entrepreneurial attitudes, behaviors and skills will be examined based on current entrepreneurial research and practices observed in industry. Entrepreneurial experiences are explored in developing and industrial nations, in new and existing companies and in non-profit settings.

**Note:** Only one of ENTR 2201, 2301 or 3301 can be used to satisfy program requirements.

### **ENTR 3010 – Directed Field Studies II**

(15 credits)

This work-term provides a business laboratory in which the student will apply the entrepreneurial theories studied during the year and build upon the skills attained in Entrepreneurship 2010. It is expected that students will achieve higher-level competencies in the functional areas of business. Students who did not start a new venture in Entrepreneurship 2010 must launch a new new venture during this work-term. Students who did start a new venture in Entrepreneurship 2010 have the flexibility to undertake multiple contracts in an entrepreneurial environment. Student will be required to submit a Directed Field Studies submission report for Directed Field Studies coordinator approval prior to embarking on the second work-term.

*Prerequisite:* Entrepreneurship 2010.



**ENTR 3015 – Directed Field Studies II for Sport and Recreation**

(15 credits)

This work-term provides students with a further opportunity to apply theory learned in the first three years of study in the Bachelor of Applied Business and Entrepreneurship – Sport and Recreation program. Students will continue to build upon their experience from ENTR 2015. It is expected that students will diversify their work experience. Students will be required to submit a work-term submission report for work-term advisor approval prior to embarking on this work-term. Goals and strategies will be reviewed by a faculty member prior to the work-term.

*Prerequisite: Entrepreneurship 2015.*

**ENTR 3251 – Marketing Research for Small Business**

(3 credits – TG) 3 hours lecture

This course is designed to provide the entrepreneurship students with a practical guide to the marketing research process. They will learn how they can utilize marketing research to assist them in effective marketing decision making, what types of research are the most cost- and time-effective for an entrepreneur, and how to apply the principles in researching their own small business.

*Prerequisite: Entrepreneurship 2201, Marketing 2150 and Management 2262.*

**ENTR 3302 – Innovation and Creativity for Entrepreneurial Practice**

(3 credits) 3 hours lecture

This course introduces the concepts of innovation and entrepreneurial creativity. Students draw upon the inspired thinking and entrepreneurial pursuits of leaders in a variety of disciplines in order to understand the process of innovation and appreciate the role of creativity in making innovation possible. Emphasizing the development of the student's own entrepreneurial creativity and ability to innovate, the experiential and reflective activities in this course encourage students to explore their potential as passionate agents of change – in their own lives and in society.

**ENTR 3305 – The Art of the Pitch**

(3 credits) 3 hours lecture

This course will help students develop their entrepreneurial communications skills to help them prepare for and present their business ideas to prospective investors, partners, employees and customers. It will focus on skill development in visual, verbal and vocal communications to pitch business ideas and handle questions and answers about their presentations.

**ENTR 3331 – Law for Small Business**

(3 credits – TG) 3 hours lecture

This course requires students to recognize and analyze legal principles and processes in contemporary business environments. The primary topics are: the legal system – courts, civil litigation, and Constitutional issues; applicable tort and contract principles and cases; real property law; business and nonprofit entities, forms, organization and liabilities; insurance and risk management; leases and employment law. Additional topics may include intellectual property; marketplace legislation; commercial law; negotiable instruments; purchase and sale of a business; and trust law.

*Note: Only one of Entrepreneurship 3331 or Management 3230 can be used to satisfy program requirements.*

**ENTR 3333 – New Venture Feasibility**

(3 credits) 3 hours lecture

This course introduces students to the key skills required to succeed as an entrepreneur. Students will gain applied skills by researching and preparing a business plan for a new enterprise. Lectures will expose students to critical new venture marketing and funding issues, and will use local case material and guest speakers to provide insight into the entrepreneurial environment.

*Prerequisite: Bachelor of Applied Business and Entrepreneurship small business & international stream students: Entrepreneurship 2201 and 3320 or 2221. Students in all other business programs: Marketing 2150 and Accounting 3220.*

*Note: Only one of Entrepreneurship 3334 or 4433 can be used to satisfy program requirements.*

**ENTR 4331 - Opportunity Development in the Entrepreneurial Venture**

(3 credits) 2 hours lecture, 2 hours studio

In this course, students will work to develop an understanding of how opportunities are identified, selected and developed for the creation of an entrepreneurial endeavor within a new business, mature organization or non-profit setting. Students will build an awareness of the local and global factors that lead to favorable conditions for opportunity development, as they work towards a single relevant, innovative and scalable opportunity that has the potential to attract the required resources. Opportunities will be analyzed using a range of practical tools and methodologies. Assessment will, where possible, mirror the processes and criteria relevant to entrepreneurs in the real world.

*Prerequisites: Entrepreneurship 3301 and 3302.*

**ENTR 4332 – Modeling and Start-up of the Entrepreneurial Venture**

(3 credits) 2 hours lecture, 2 hours studio

In this course, students will be immersed in the issues encountered by entrepreneurs while modeling and assessing the feasibility of opportunities. They will be challenged to evaluate the opportunities they developed in ENTR 4331 and consider industry, market and product research through the lens of the pre-start-up and start-up phases of the venture life cycle. Contingency strategies will be developed as necessary after students receive feedback on progress and viability.

*Prerequisite: Entrepreneurship 4331.*

**ENTR 4343 – Start-up to Survival of the Entrepreneurial Venture**

(3 credits) 2 hours lecture, 2 hours studio

In this course, the ventures that students developed in ENTR 4332 will continue to be evolved through to the early growth phase of the venture life cycle. In this course the focus will be on topics such as marketing, sales, financials, business modeling, opportunity valuation, next levels of fundraising, management team and founder as leader, and other topics related to bringing ventures to fruition. In addition, the reasons businesses typically fail will be analyzed.

*Prerequisite: Entrepreneurship 4332.*

**ENTR 4344 – Growth of the Entrepreneurial Venture**

(3 credits) 2 hours lecture, 2 hours studio

In this course, students will analyze ventures in the later growth phases of the venture life cycle in order to gain an understanding of the requirements and alternatives for the successful evolution of an organization. The class will focus on issues that impact the ability of a venture to expand operations or pursue harvesting scenarios. Topics to be explored include evolution of operations, professional management, integrated systems, later stage venture financing, IPOs, harvest calculations and negotiations, and the franchising alternative.

*Prerequisite: Entrepreneurship 4343.*

**ENTR 4433 – Business Plan Development**

(3 credits) 3 hours lecture

Students will be able to prepare and present a solid business plan for a new or existing enterprise. Areas covered will include identifying and assessing opportunities, developing a winning strategy, identifying resource requirements and selling the plan to financing sources.

*Prerequisite: Management 2130 or Entrepreneurship 2201 or 3301, Marketing 2150, Accounting 2121 or 3224.*

*Note: Only one of Entrepreneurship 3334 or 4433 can be used to satisfy program requirements.*

**ENTR 4434 – Small Business Practicum**

(3 credits – TG) 2 hours lecture, 1 hour tutorial

This course is designed to help students acquire the ability to rationally analyse the real life issues and problems of a currently operating small business. Teams of two students will work as consultants to an existing small business. This course provides the opportunity to integrate problems and apply knowledge by identifying, examining, and creating a recommended solution within a holistic framework.

*Prerequisite: Entrepreneurship 2010, Finance 4427 and Management 4431.*

**GEOG 1105 – Introduction to Mapping, GIS and Remote Sensing (formerly GEOG 2231)**

(3 credits – TG) 3 hours lecture, 3 hours lab

This course covers three key areas of geographical techniques: 1) an introduction to topographic and thematic maps, map projections, and map design and layout; 2) the use of geographic information systems to manipulate and visualize data and; 3) an introduction to digital imagery and remote sensing. This course utilizes descriptive statistics and includes a hands-on applied computer component.

**GEOG 2107 – Weather and Climate (formerly GEOG 3305)**

(3 credits – TG) 3 hours lecture, 2 hours lab

This course involves the study of physical principles of meteorology and climatology. Air masses and fronts, mid-latitude depressions, small and large-scale storms, atmospheric-oceanic coupled circulations, and human-induced climate change are among the topics presented. The characteristics and distributions of climates are explored. Laboratory work emphasizes North American examples.

*Prerequisite:* Geography 1101 or consent of the department.

**GEOG 2109 – Soil Characteristics and Formation (formerly GEOG 3313)**

(3 credits – TG) 3 hours lecture, 3 hours lab

This course includes a study of the physical, chemical and biological characteristics of soils, and the processes and factors of soil formation. Laboratory work will include the analysis of soil samples gathered during weekend field trips.

*Prerequisite:* Geography 1101 or Geology 1101 or 1109 or consent of the department.

**GEOG 2111 – Landform Processes and Morphology (formerly GEOG 3307)**

(3 credits – TG) 3 hours lecture, 2 hours lab

This course involves a systematic study of the origin, nature and distribution of landforms. Laboratory work will include geomorphic interpretation of maps and air photographs. Weekend field trips are possible in this course.

*Prerequisite:* Geography 1101 or Geology 1101, 1103 or 1109.

**GEOG 2225 – Regional Geography of Canada (formerly GEOG 3381)**

(3 credits – TG) 3 hours lecture

This course involves a regional geography approach to the study of Canada. Included is the study of the physical framework of Canada and its significance in Canada's historical development. The concept of geographic regions, and the patterns and characteristics of these regions are explored using selected detailed studies.

*Recommended Preparation:* A previous course in Geography

**GEOG 2230 – Regional Geography of Europe**

(3 credits) 3 hours lecture

This course will explore Europe's regional geography, its physical setting, its human geography (history, demography, economics, politics, culture), and its environmental challenges. Students will be exposed to the internal and external forces that bind the continent's various parts together and the social geographic factors that pull them apart. Special emphasis will be placed on contemporary Europe in the era of globalization and the deepening and widening of the European Union.

*Recommended Preparation:* A previous course in Geography.

**GEOG 2333 – Economic Geography (formerly GEOG 3341)**

(3 credits – TG) 3 hours lecture

This course provides a survey of the basic elements of economic geography. Included is the study of the environmental, economic, social and technological influences on the distribution of economic activities. Special reference is made to economic development, multinational corporations and newly industrializing economies.

*Recommended Preparation:* Geography 1103.

Note: This course transfers as a senior Geography course to the University of Calgary and to other post-secondary institutions.

**GEOG 2335 – Introduction to Urban Geography (formerly GEOG 3351)**

(3 credits – TG) 3 hours lecture

This course introduces the topic of cities, focusing on the history of the urban environment and culture, and urban issues and sustainability from a geographical point of view. Major cities of the world and local examples will be studied.

*Prerequisite:* Geography 1103 or consent of the department.

**GEOG 2337 – Political Geography (formerly GEOG 3365)**

(3 credits – TG) 3 hours lecture

Students will be instructed in the influence of physical and cultural landscapes on politics, and the influence of politics on the landscape. Topics of study include globalization, regionalism, terrorism, war and disputed territory. The political response to global environmental issues, and the politics of poverty and development are also discussed in this course.

*Prerequisite:* A previous Geography course or consent of the department.

**GEOG 2437 – Biogeography**

(3 credits – TG) 3 hours lecture

Biogeography is the study of the spatial and temporal distribution of biota. As practiced by geographers, biogeography is closely related to biology, ecology and environmental science with an emphasis on systems and spatial analysis. This course uses a foundation of evolutionary theory and science that forms the basis for thinking critically about contemporary human uses of plants, animals and other biota. Further, the course will explore themes related to human adaptation and impacts in response to the evolution of the biosphere.

*Recommended preparation:* A previous course in Geography.

**GEOG 2443 – Tourism and Recreation Geography (formerly GEOG 3327)**

(3 credits – TG) 3 hours lecture

This course involves the study of: dimensions of tourism and recreation, scales and impacts of human activities on recreational resources and environments, planning for sustainable tourism, cultural and heritage tourism, nature-based and ecotourism, and development and management issues.

*Recommended Preparation:* Geography 1101 or 1103.

**GEOG 2445 – Environmental Problems and Resource Management (formerly GEOG 3321)**

(3 credits – TG) 3 hours lecture

Environmental and resource issues are introduced, with emphasis on topics such as ethics, sustainability, policy and decision-making, and management strategies. Case examples highlight issues on resource sectors including fresh water, oceans, parks, wildlife, forests and energy.

*Recommended Preparation:* Geography 1101 or 1103.

**GEOG 2553 – Geographic Information Systems (formerly GEOG 3105)**

(3 credits – TG) 3 hours lecture, 3 hours lab

This course includes the technical and theoretical foundations of Geographical Information systems (GIS). Raster and vector representations of the physical landscape and associated map analysis techniques are explored. Modeling and performing single and multiple map analyses focus on practical case studies, and form the basis of lecture and laboratory assignments. Cartographically sound visualization techniques will be emphasized.

*Prerequisite:* Geography 1105 or consent of the department.

**HIST 2291 – Film and History  
(formerly HIST 3391)**

(3 credits – TG) 3 hours lecture

This course examines film as a historical document. Films are a valuable source of social, cultural and intellectual history, as well as historical continuity and change. Themes addressed may include: collective memory; documentary films versus fictional films; war and film; issues of gender; race, ethnicity and representation of minority groups; class; sexuality; and film as a source of propaganda.

*Recommended preparation: Any one of History 1101, 1103, 1131 or 1133.*

**HIST 3306 – Making the Mosaic: Race and Ethnicity in Canada**

(3 credits) 3 hours lecture

This course examines the experience and meanings of race, ethnicity, and immigration in Canadian history. Themes may include Aboriginal/European relations, the settlement of the west, law and race, discrimination, urban history, multiculturalism, and the politics of immigration.

*Recommended Preparation: History 1131 and/or 1133.*

**HIST 3318 – Deviance and Conformity: The History of the Canadian Institutional State**

(3 credits – TG) 3 hours lecture

This course examines the extension and consolidation of state authority through the intellectual, social, and cultural history of various institutions in Canada. Topics might include asylums, medicine, prisons, reserves, and education. Special attention is paid to how concepts like health, ethnicity, class, learning, and sanity were constructed to serve the interests of the state.

*Recommended Preparation: At least one of History 1131, 1133, 2205, 2207, or 2232.*

**HIST 3319 – Conflict and Violence in Canadian History**

(3 credits) 3 hours lecture

This course examines conflicts and violent events in Canadian history and how they have shaped Canadian society. It takes a case-study approach to the problem, and themes may include relations between labour and capital, French/English relations, nativism and immigration, racial/ethnic/gendered violence in society, Native/newcomer relations, and the impact of war on society.

*Recommended Preparation: History 1131 and/or 1133.*

**HIST 3329 – The Witch Trials of Early Modern Europe**

(3 credits – TG) 3 hours lecture

Between 1450 and 1700 Europe experienced many trials and executions on the charge of diabolical witchcraft. This course focuses on the origins, intellectual foundations, historical development, and eventual decline of the trials. The course also examines the overlap between issues of religion, law, gender, the history of science, and social relations in early modern Europe.

*Recommended Preparation: History 1103 or 2229.*

**HIST 3333 – The Renaissance**

(3 credits – TG) 3 hours lecture

This course explores the intellectual and cultural developments known as “the Renaissance” within the social, economic and political contexts of Europe in fourteenth and fifteenth-century. Students will study a wide range of contemporary sources to examine the values and beliefs of people who created or reacted to humanism and the reshaping of their societies by the emergence of modern capitalism, the discovery of new worlds, and the advent of a revolutionary information technology: printing. The work of modern historians will be used to illuminate and contextualize the developments in this period, as well as to demonstrate the range of critical perspectives that have been applied to it.

**Note:** History 3333 = Athabasca University HIST 373. Credit will be allowed for only one of History 3333 and HIST A373.

**HIST 3335 – The Reformation**

(3 credits – TG) 3 hours lecture

This course examines social, political and religious trends in European history from the mid-fifteenth to early seventeenth century. It focuses in particular on the changes that occurred in European religious life in this period, collectively referred to as the Reformation.

**Note:** History 3335 = Athabasca University HIST 374. Credit will be allowed for only one of History 3335 and HIST A374.

**History 3336 – Topics in European History**

(3 Credits) 3 hours lecture

This course offers the opportunity to examine selected themes in European history. The specific content of the course will vary by term and instructor. Possible topics include the French Revolution, the culture of coffeehouses, history of alcohol, consumer culture, history of the book, science and society, and Gregorian England.

**HIST 3343 – Resistance and Resilience: Native Peoples in the United States**

(3 credits) 3 hours lecture

This course surveys the diverse histories of Aboriginal groups in what is now the United States from the pre-contact era to the present day. Emphasis will be placed upon the relationship between Native peoples and the newcomers they encountered, and the struggle of Native peoples to retain their cultures and autonomy while dealing with significant changes.

**HIST 3345 – First Nations in Canada:****Co-operation, Coercion and Confrontation**

(3 credits – TG) 3 hours lecture

Survey of the diverse histories of the various First Nations groups in what is now Canada. Emphasis will be placed upon the relationship between Native peoples and the French, British and Canadian governments.

*Recommended Preparation: Any junior-level history course.*

**Note:** History 3345 = Athabasca University INST 369. Credit will be allowed for only one of History 3345 and INST A369.

**HIST 3346 – Indigenous People in Latin America**

(3 credits) 3 hours lecture

This course is an introduction to the history of Latin American indigenous societies. Themes to be explored include native resistance and collusion with Iberian conquest efforts, the resilience of indigenous cultures in the face of coercive change, and the robust revival of the region’s indigenous populations in the recent past.

**HIST 3356 – Topics in Canadian History**

(3 credits) 3 hours lecture

This course offers the opportunity to examine selected topics in Canadian history. The specific content of the course will vary by term and instructor. Possible topics include political culture, popular culture, French Canada, Canada-US relations, or military history.

*Recommended Preparation: History 1131 and 1133.*

**HIST 3358 – American Environmental History**

(3 credits – TG) 3 hours lecture

This course examines the ways Americans have utilized the environment to meet their wants and needs, as well as the ways in which the environment has shaped society. Students will study primary documents and historians’ accounts to understand this complex relationship from multiple perspectives. Potential topics include industry, agriculture, cities, energy, reform movements, and invasive species.

**HIST 3357 – Topics in American Culture**

(3 credits – TG) 3 hours lecture

This course provides an introduction to themes in American cultural history. Each semester a different topic will be chosen for study. For instance, the history of public amusement, history of sexuality and African American culture.



### **HIST 3358 – American Environmental History**

(3 credits) 3 hours lecture

This course examines the ways Americans have utilized the environment to meet their wants and needs, as well as the ways in which the environment has shaped society. Students will study primary documents and historians' accounts to understand this complex relationship from multiple perspectives. Potential topics include industry, agriculture, cities, energy, reform movements, and invasive species.

### **HIST 3361 – The Holocaust**

(3 credits) 3 hours lecture

This course examines the causes, course and consequences of the Holocaust – the mass murder of European Jewry (and others) by the Nazi State during World War II. The roles of victims, perpetrators, bystanders, rescuers, and survivors will be explored, as well as post-war "collective memory" and Holocaust "representation".

*Recommended preparation: Any one of History 1103, 2237, 2243, or 3365.*

### **HIST 3365 – World War II**

(3 credits – TG) 3 hours lecture

This course examines the origins, conduct and consequences of the Second World War. It focuses particularly on the experience of ordinary participants, including front-line soldiers, civilians on the home front, prisoners of war, members of resistance movements and collaborators in occupied Europe. In addition to explaining the events of the war itself, the course will examine how the conflict is remembered in North American popular culture.



**Note:** History 3365 = Athabasca University HIST 367. Credit will only be allowed for one of History 3365 and HIST A367.

### **HIST 3373 – World War I**

(3 credits – TG) 3 hours lecture

This course examines the origin, conduct and consequences of the First World War. The focus of study will include the nature of warfare at the beginning of the 20th century as well as the social, economic and political changes affected by the war. In addition to examining the events of the war, the way that war has been represented culturally and intellectually will be addressed.



*Recommended preparation: History 1103.*

### **HIST 3383 – History of Religion in Canada**

(3 credits) 3 hours lecture

This course explores diverse religious experiences in Canada from a historical perspective. Themes may include missionary activity and cultural conflict, relations between church and state, the impact of religion on gender, class, and racial identities, as well as the role of religion in social and political change.

*Recommended Preparation: History 1131 and 1133.*

### **HIST 3385 – Religion, War, and Society in Europe, 1558-1714**

(3 credits – TG) 3 hours lecture

This course takes a comparative approach to the study of the political and social development of France and Britain in the later Sixteenth and Seventeenth Centuries. It considers how the development of the state and society were shaped by fierce religious conflicts and profound economic and cultural change. The course encompasses various key subjects in this period including the reign of Elizabeth I, the French Wars of Religion, the British Civil Wars, the Frondes, Oliver Cromwell and the English republican experiment, Louis XIV and the expansion of the French state, and the beginnings of a British constitutional monarchy in the Revolution of 1688-89.



### **HIST 4401 – Special Topics in War and Society**

(3 credits – TG) 3 hours lecture

This course provides students with the opportunity to focus on a particular theme from the field of war and society in a seminar environment. Topics might include the development of military medicine, the Holocaust, technology and warfare in the 20th century, literature and war, or war on the home front.

*Recommended Preparation: At least one of History 2263, 3365, or 3373.*

### **HIST 4402 – The Age of Enlightenment**

(3 credits – TG) 3 hours Lecture

This course examines the Enlightenment through reading and discussion of primary documents and historians' debates. Emphasis will be placed on interpretations of the Enlightenment and analyzing what impact it made on later generations. Possible topics include Enlightenment or Enlightenments; British Enlightenment; Enlightenment bodies; and religion in the Enlightenment.

*Recommended Preparation: History 1103 and 2229.*

### **HIST 4403 – Landmarks in the History of Science**

(3 credits) 3 hours lecture

This course examines major events in the history of science through reading and discussion of primary documents and historians' debates. Emphasis will be placed on appreciating science as a product of the past culture which produced it. Possible topics include the Scientific Revolution; Darwinism; science and society; and the popularization of science.

*Recommended Preparation: At least one 3000 level History course.*

### **HIST 4404 – Topics in Canadian Social History**

(3 credits – TG) 3 hours lecture

This course offers students an opportunity for advanced study in the social history of Canada. Topics may include labour, immigration, religion, family, First Nations, women, health, and social welfare.

*Recommended Preparation: At least one of History 1131 and 1133, as well as History 2232.*

### **HIST 4405 – Special Topics in Public History**

(3 credits – TG) 3 hours lecture

This course provides students with an introduction to the practice of history in a variety of venues such as museums and historic sites. The course will expose students to the skills, methods and techniques utilized by public history practitioners. Topics may include archives, electronic media, curatorial authority, controversies, First Nations peoples, tourism, and cultural heritage.

*Recommended Preparation: At least one 3000-level History course.*

### **HIST 4411 – The American Civil War and Reconstruction**

(3 credits) 3 hours lecture

This course is an exploration of the rise of sectional conflict, the Civil War, Reconstruction, and the ways in which Americans have remembered these events. Topics include slavery, political conflict, strategy and tactics, the home front, race, Reconstruction and reunion, and the role of the media in shaping popular conceptions of history.

*Recommended Preparation: History 1117.*

### **HIST 4455 – Canada in the Era of the Cold War**

(3 credits – TG) 3 hours lecture

This advanced seminar course focuses on the social, political, and cultural history of Canada from 1945 to 1991. Themes include Canadian defence, nuclear weapons, foreign policy, espionage, domestic and international politics, the development of social programs, and Canadian culture.

*Recommended Preparation: History 1133 and/or History 2232.*

### **HIST 4461 – Limits of Representation: Holocaust and Memory**

(3 credits) 3 hours lecture

The Holocaust changed the historical, political and cultural landscape, and this course will help students understand how society remembers and historicizes this event. In this senior seminar course, students engage with primary documents such as published and unpublished survivor testimony, historical and contemporary novels and films and other representations of this traumatic event.

*Prerequisite: History 3361.*

### MATH 0131 – Calculus and Matrices

(0 credits) 5 hours lecture

This is a credit-free upgrading course; special fees apply. Part 1: Calculus – Limits, differentiation of sums, products and quotients (excluding exponential, logarithmic and trigonometric functions), the Chain Rule, application to curve sketching, maximum and minimum problems, motion, simple integration, area under a curve and area between curves. Part 2: Matrices – Systems of linear equations, operations with matrices, special matrices, the determinant function, inverses of matrices.

*Corresponding Alberta High School Equivalent: Mathematics 31*

*Recommended Preparation: Mathematics 0130, Pure Mathematics 30 or equivalent.*

### MATH 1200 – Calculus for Scientists I (formerly MATH 2249)

(3 credits – TG) 4 hours lecture, 1 hour tutorial

This course provides an introduction to calculus with some exposure to applications in the sciences. Topics covered will include algebraic operations, functions and graphs, transcendental functions, limits, derivatives, integrals and the fundamental theorem of calculus. Studying calculus will expose students to a variety of important mathematical ideas and help students develop their calculation, critical thinking and problem solving skills.

*Prerequisite: A grade of 60% or higher in Pure Mathematics 30 or in Mathematics 0130, or a grade of C- or higher in any of Mathematics 1283 or 1285 or equivalent.*



### MATH 1202 – Calculus for Scientists II (formerly MATH 2253)

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course is an introduction to integral calculus and its applications. Methods of integration are studied and applied to the calculation of volumes, surface areas, arc lengths and work. Inverse trigonometric and hyperbolic functions, L'Hospital's Rule, first and second-order linear differential equations are also studied.

*Prerequisite: Mathematics 1200 with a grade of C- or higher.*



### MATH 1203 – Linear Algebra for Scientists and Engineers (formerly MATH 2211)

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course is an introduction to linear algebra for science students. Topics covered are vector and matrix algebra, systems of linear equations, determinants, linear transformations, polar coordinates and complex numbers. Applications in the physical sciences are studied with the help of eigenvalues and eigenvectors.

*Prerequisite: Pure Math 30 with a 60% or higher.*

### MATH 1205 – The Beauty of Mathematics

(3 credits – TG) 5 hours lecture

This course introduces the student to the skills of problem solving and critical thinking. Students are also exposed to some of the history, philosophy, ideas, and people in mathematics. An emphasis is placed on applications of mathematics to everyday life.



### MATH 1211 – Concepts of Mathematical Statistics

(3 credits – TG) 4 hours lecture, 1 hour lab

This course involves descriptive statistics and a brief introduction to probability theory. A systematic treatment of inferential statistics is undertaken in this course. Topics include the inferences of one population and two population means and proportions, regression and correlation, and chi-square test.

*Prerequisite: Pure Mathematics 30 or equivalent with a grade of 60% or higher; or Mathematics 0130, 1283 or 1285 with a grade of C or higher or consent of department.*

**Note:** Only one of the Mathematics 1211, Mathematics 1224, Mathematics 2233 and Mathematics 2333 can be used for graduation purpose.



### MATH 1217 – Calculus for Engineers and Scientists I

(3 credits – TG) 3 hours lecture, 1.5 hours tutorial

Functions, limits, continuity, derivatives, mean value theorem, integrals, fundamental theorem of calculus, applications in the physical sciences.

*Prerequisite: Pure Mathematics 30 with a grade of 65% or higher or Mathematics 0130 or equivalent with a grade of C or higher. Mathematics 31 or equivalent with a grade of 65% or higher or Mathematics 0131 with a grade of C or higher.*

**Note:** Credit for more than one of Mathematics 1217, 2249, 2251 and 2285 will not be allowed.

### MATH 1219 – Multivariable Calculus for Engineers

(3 credits – TG) 3 hours lecture, 1.5 hours tutorial

Techniques of integration, double and triple integrals, partial derivatives, applications.

*Prerequisite: Mathematics 1217 with a grade of C- or higher.*

**Note:** Credit for both Mathematics 1219 and 2253 will not be allowed.

### MATH 1224 – Introduction to Statistics

(3 credits – TG) 4 hours lecture, 1 hour lab

This course involves descriptive statistics and some basic theory of probability including Bayes' Rule, expectation, probability distribution (binomial, Poisson, normal) and sampling distributions. Confidence interval and hypothesis testing are introduced.

*Prerequisite: Pure Mathematics 30 or equivalent with a grade of 60% or higher; or Mathematics 0130, 1283 or 1285 with a grade of C or higher or consent of department.*

**Note:** Only one of the Mathematics 1211, Mathematics 1224, Mathematics 2233 and Mathematics 2333 can be used for graduation purpose.



### MATH 1225 – Statistical Inference

(3 credits – TG) 5 hours lecture

This course involves inferences concerning means, proportion and variance. Analysis of variance (one and two ways), regression and correlation analysis are also discussed as well as nonparametric statistics. Application of these statistics to problems in business, biology and social sciences is studied.

*Prerequisite: Mathematics 1224 or consent of department.*

### MATH 1271 – Discrete Mathematics (formerly MATH 2271)

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course is an introduction to symbolic logic, techniques of proof, sets, equivalence relations. There is also an exploration of mathematical induction, recursion, counting principles, graphs, and trees.

*Prerequisite: Mathematics 1203 with a grade of C- or higher.*



### MATH 1281 – Precalculus I

(3 credits – TG) 5 hours lecture

A course which covers precalculus topics such as introduction to sets, mathematical systems, the basics of algebra, linear and quadratic equations, systems of equations and problem solving techniques.

### MATH 1283 – Precalculus II

(3 credits – TG) 5 hours lecture

A course which covers precalculus topics such as systems of inequalities, introduction to linear programming with applications, functions and relations, graphs of polynomials and rational functions, coordinate geometry (straight line and circle), plane geometry and measurement in two or three dimensions.

*Prerequisite: Pure Mathematics 30 or equivalent, or Mathematics 1281.*

### MATH 1285 – Precalculus III

(3 credits – TG) 5 hours lecture

A course which covers precalculus material such as trigonometric, exponential and logarithmic functions, inverse trigonometric functions, analytic geometry, sequences and series, the binomial theorem, mathematical induction.

*Prerequisite: Pure Mathematics 30 or equivalent, or Mathematics 1283.*

**MATH 2101 – Abstract Algebra  
(formerly MATH 3315)**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course is an introduction to abstract algebra with applications in cryptography. Topics studied include groups and rings, polynomial arithmetic and the division algorithm, and congruencies.

*Prerequisite: Mathematics 1203 with a grade of C- or higher.*

**MATH 2102 – Wonders of Geometry  
(formerly GNED 2102)**

(3 credits) 3 hours lecture

Wonders of Geometry is a foundational course intended for a general audience interested in geometry in every day life. This will be a problem based course dealing with geometry in two or three dimensions, analytic geometry and algebra.

**MATH 2103 – Journey through Statistics  
(formerly GNED 2101)**

(3 credits) 3 hours lecture

Journey through Statistics is a course intended for a general audience that is interested in statistical concepts in their every day life. Our course will be more qualitative than quantitative and its intention is to spark interest in statistics and probability as a discipline. The emphasis will be given to understanding statistical and probabilistic concepts as opposed to computational aspects.

**MATH 2160 – Higher Arithmetic**

(3 credits – TG) 3 hours lecture

This course explores elementary number theory, numeration systems, operations on integers and rational number and elementary combinatorics using both inductive and deductive methods. Emphasis will be put on the development of clarity and understanding of mathematical processes and ideas, the application of these ideas to problem solving and the communication of these ideas to other people.

*Prerequisite: Pure Mathematics 30 or the permission of the department.*

**MATH 2207 – Mathematical Methods**

(3 credits) 3 hours lecture, 1 hour tutorial

This course provides an introduction to solving systems of ordinary differential equations and ordinary differential equations with series solutions and also partial differential equations. Multivariable calculus basics including vector calculus, multiple, line and surface integrals will be covered, as are applications by exploring Green's theorem, Gauss's theorem, and Stokes' theorem.

*Prerequisite: Mathematics 1202, and 1203, each with a minimum grade of C-.*

**MATH 2211 – Linear Methods I**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course involves descriptive statistics and a brief introduction to probability theory. A systematic treatment of inferential statistics is undertaken in this course. Topics include the inferences of one population and two population means and proportions, regression and correlation, and chi-square test.

*Prerequisite: Pure Mathematics 30 or equivalent with a grade of 60% or higher; or Mathematics 0130, 1283 or 1285 with a grade of C or higher.*

Note: Only one of the Mathematics 1211, Mathematics 1224, Mathematics 2233 and Mathematics 2333 can be used for graduation purpose.

**MATH 2233 – Statistics for Biological Sciences**

(3 credits) 3 hours lecture, 1 hour tutorial

This course involves descriptive statistics, some probability theory and a systematic treatment of inferential statistics. Topics include inferences of population means and proportions, regression and correlation, chi-square test, analysis of variance. Applications of these statistical methods to problems in biological and health sciences are studied.

*Prerequisite: Mathematics 1200 with a grade of C- or higher.*

Note: Only one of the Mathematics 1211, Mathematics 1224, Mathematics 2233 and Mathematics 2333 can be used for graduation purpose.

**MATH 2235 – Statistics with Applications in Geology**

(3 credits) 3 hours lecture, 1 hour tutorial, 1 hour lab

This course involves probability theory, discrete and continuous random variables and probability distributions. A systematic treatment of inferential statistics is undertaken. The topics include estimation and hypotheses testing, analysis of variance, linear regression and correlation. Applications of these statistical methods to problems in geological science are studied. Statistical computer software is used in this course.

*Prerequisite: Mathematics 1200 with a grade of C- or higher.*

**MATH 2251 – Calculus I**

(3 credits – TG) 4 hours lecture

This course is designed for students with some previous exposure to calculus. Topics including functions and graphs, transcendental functions, limits, derivatives, integrals and the fundamental theorem of calculus with emphasis on why the theorems and formulae are true and how they can be applied. By studying calculus, students will improve their critical thinking and problem solving skills and gain insight into the discipline of mathematics.

*Prerequisite: Pure Mathematics 30 or equivalent with a grade of 65% or higher; or Mathematics 0130, 1283 or 1285 with a grade of "B-" or higher; and Mathematics 31 with a grade of 50% or higher; or Mathematics 0131 with a grade of "D" or higher.*

Note: Credit for more than one of Mathematics 1200, 1217, and 2251 will not be allowed.

**MATH 2285 – Calculus with Applications**

(3 credits – TG) 3 hours lecture, 2 hours lab

This course is an introduction to calculus with an emphasis on applications in sciences. Problem solving is a major component of this course.

*Prerequisite: Pure Math 30 with a grade of 60% or higher or equivalent.*

Note: Credit for more than one of Mathematics 1200, 1217, 2251, and 2285 will not be allowed.

**MATH 2301 – Calculus III (formerly MATH 3349)**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course is a continuation of the calculus stream. Convergence of sequences and series are studied, along with Taylor polynomials, curves and surfaces in three dimensions, multivariate functions and differentiation and Lagrange multipliers. Applications include three dimensional mechanics.

*Prerequisite: Mathematics 1202 and 1203 a grade of C- or higher.*

**MATH 2302 – Calculus IV (formerly MATH 3353)**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

Functions of several variables are thoroughly studied in this course. The focus is on multivariate integration and differentiation, through the study of the theorems of Green, Gauss, and Stokes. Approximation, optimization techniques, and applications to fluid dynamics are also examined.

*Prerequisite: Mathematics 2301 with a grade of C- or higher.*

**MATH 2311 – Linear Algebra (formerly MATH 3311)**

(3 credits – TG) 3 hours lecture, 1 hour tutorial

This course is an introduction to abstract vector spaces and subspaces. Projections and best approximations are studied with the help of the Gram-Schmidt algorithm. Other topics that are studied are population dynamics, Fourier analysis, and eigenvalues and eigenvectors.

*Prerequisite: Mathematics 1203 with a grade of C- or higher.*

## NTSC 2201 – Environmentally Sustainable and Healthy Societies

(3 credits – TG) 3 hours lecture

Every human being, every institution and every organization can make a difference in the quest for a sustainable and healthy future for humankind. This course will examine current practices that result in unhealthy societies and unsustainable environmental impacts and the changes that must be made in order to establish a sustainable and healthy future planet. Our future depends on managing our planet in ways that create sustainable relationships with our ecosystems.



## NTSC 3301 – Environmental Health

(3 credits) 3 hours lecture

Many aspects of human health are affected by the environment, and many diseases can be initiated, promoted, sustained or stimulated by environmental factors. For that reason the interactions of people with their environment are an important component of public health. This course introduces students to the complexity of environmental health issues facing society today.

*Prerequisite: Natural Science 2201 or Biology 1202 or Chemistry 3357 or Nursing 2279 or 3375 or consent of the department.*



## NTSC 3321 – Environmental and Developmental Legacy of Alberta's Oil and Gas Industry

(3 credits) 3 hours lecture

This course investigates the development of Alberta's oil and gas industry in relation to how it affects our environment and our socio-economic development. Topics covered include analyses of changes in the environmental and socio-economic status of Alberta since the oil discovery; and how changes in petroleum technologies and petroleum policies affect our environment and our economy. These concepts will be illustrated by using case studies drawn from companies and agencies involved in the Alberta's oil and gas development.

*Prerequisite: Natural Science 1112 or equivalent or departmental approval.*

## NONPROFIT STUDIES (NPRO)

### NPRO 2010 – Directed Field Studies I

(15 credits)

The Directed Field Studies course requires students to work for an employer in a nonprofit capacity. This on-the-job experience combined with faculty mentoring will enable students to become skillful at both personal and situational analysis and to demonstrate proficiency in multi-discipline and business applications. Students must complete a series of research projects to relate their practical experience with their academic studies. Students may, with prior approval, engage in a new nonprofit organizational startup.

*Prerequisite: Nonprofit Studies 2201, 2247, and 3305 with minimum grades of C or higher, or consent of the department.*

### NPRO 2201 – Canada's Nonprofit Sector – Foundations

(3 credits) 3 hours lecture

This foundation course introduces the history of the nonprofit sector, its role in service delivery, and its composition. It will introduce basic concepts and vocabulary unique to Canada's nonprofit sector. Recent trends in the nonprofit sector will also be discussed.



### NPRO 2247 – Introduction to Volunteer Management

(3 credits) 3 hours lecture

This course discusses the role of the volunteer in the community and within a nonprofit organization. Course material will include a brief history of voluntarism, the recruitment and training of volunteers, and the role of volunteers in the planning and delivery of community programs. Special attention will be paid to the unique aspects of managing volunteers, including risk management, retention, recognition, and incentives.



## NPRO 3010 – Directed Field Studies II

(15 credits)

This course requires students to work for an employer in the nonprofit sector of the economy. Students will typically be employed in a nonprofit organization, in government, or in industry. This on-the-job experience combined with faculty mentoring will enable students to become skillful at both personal and situational analysis and to demonstrate proficiency in multi-discipline nonprofit and business applications. Students may, with prior approval, engage in a new nonprofit organizational startup. Students will build upon the experiences gained from their first work term and demonstrate a higher level of competency in the nonprofit sector.

*Prerequisite: Nonprofit Studies 2010 and Management 4407 with minimum grades of C or higher, or consent of the department.*

## NPRO 3305 – Program Planning and Assessment for the Nonprofit Sector

(3 credits) 3 hours lecture

This course addresses program planning and assessment principles currently used in the nonprofit sector. It will equip students with the knowledge and skills necessary to create new programs and initiatives.

## NPRO 4405 – Strategic Management for the Nonprofit Sector

(3 credits) 3 hours lecture

This course introduces the fundamentals of strategic planning and strategic management for the nonprofit sector. A variety of perspectives, models, and approaches to strategic planning are presented. Factors such as organizational leadership, culture, complexity, and dynamic issues external to the organization are covered.

*Prerequisite: Nonprofit Studies 2010, or consent of the department.*

## NPRO 2299, 3399 – Directed Readings

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## NURSING (NURS)

### NURS 1111 – Theoretical Foundations of Nursing I

(3 credits) 3 hours lecture, 12 hours – field study

This course introduces the curriculum framework concepts of person, nursing, health and environment and the Bachelor of Nursing program goals. Emphasis will be placed on the history and evolution of the concepts of health and nursing as a basis for understanding the profession of nursing and knowledge based practice. Students will participate in a field experience observing nurses in a variety of roles.

*Pre or Corequisite: Interdisciplinary Studies 2240 and Biology 1220.*

*Corequisite: Nursing 1112.*

### NURS 1112 – Health Promotion with Individuals I

(3 credits) 2 hours lecture, 2 hours lab

The focus of this course will be on the individual's holistic experience of health within the context of family and health promotion. Students will integrate theory and practice of health assessment related to determinants and patterns of health, foundational nursing care principles and intervention strategies.

*Pre or Corequisite: Interdisciplinary Studies 2240 and Biology 1220.*

*Corequisite: Nursing 1111.*

### NURS 1213 – Health Promotion with Individuals II

(3 credits) 2 hours lecture, 2 hours lab

This course is a continuation of Health Promotion for Individuals I. Additional focus will be placed on understanding the family and the individual's holistic experience of health and health promotion. Students will further integrate theory and practice of health assessment related to determinants and patterns of health, nursing care, teaching principles and intervention strategies.

*Prerequisite: Nursing 1111 and 1112, Health Studies 2240 and Biology 1220.*

*Pre or Corequisite: Biology 1221.*

*Corequisite: Nursing 1214.*

**PHED 1001 – Human Anatomy (formerly PHED 1224)**

(3 credits – TG) 3 hours lecture, 3 hours lab

This course provides a systematic survey of the structure of the human body. Topics include: cells and tissues of the body; the anatomy of the skeletal, articular, muscular, digestive, respiratory, urinary, reproductive, circulatory, nervous, integumentary and endocrine systems. Labs are designed to provide practical demonstrations that parallel the material discussed in the lectures.



**Note:** To obtain transfer credit, Physical Education 1001 must be completed with a grade of C- or higher before enrolling in Physical Education 3001. *This course is the same as Biology 1203.*

**PHED 1003 – Historical and Philosophical Foundations in Sport and Culture (formerly PHED 2243)**

(3 credits – TG) 3 hours lecture

This course provides an examination of the cultural meanings of sport, leisure, and physical education; and the place of the body in our culture both historically and in the present.

**PHED 1005 – Leadership and Communication in Physical Education (formerly PHED 2211)**

(3 credits – TG) 3 hours lecture

This course presents the theory and application of leadership and interpersonal communication skills as they apply to large and small groups in the field of physical activity and sport.

**PHED 1007 – Critical Thinking and Research Methods (formerly PHED 2213)**

(3 credits – TG) 3 hours lecture

A study of the use of the analytical approach to communication with emphasis on information gathering, problem solving, search processes, describing and analysing data and applying critical thinking to the discipline of physical education and kinesiology.

**PHED 1171 – Introduction to Outdoor Pursuits**

(3 credits – TG) 38 hours lecture and 22 hours fieldwork

This course will survey the history, principles, philosophy, rationale and vocational opportunities of outdoor pursuits. Students will become familiar with fundamental camping and navigation techniques as the cornerstones of outdoor living. Participation is required in one weekend of fieldwork.

**PHED 1201 – Foundations of Sport and Recreation**

(3 credits) 3 hours lecture

This course provides an introduction to the history and philosophy of sport/physical activity and its relationship to culture. The focus will be the significance of the body and the human movement phenomenon. The emphasis is to provide a foundation for further research in physical activity and sport.

**PHED 1203 – Organization and Administration of Sport and Recreation**

(3 credits – TG) 3 hours lecture

This course is a study of the principles and practices of administration and management of sport and recreation. Students will learn administrative (management) process and its relationship to other organizational functions such as communication, leadership, governance, evaluation and human resource management. Various organizational designs and structures available to sport and recreation administrators will be explored. Other topics include risk management, finances of sport and recreation organizations and running efficient meetings.

**PHED 1215 – Lifetime Leisure Activities**

(3 credits – TG) 3 hours lecture

This course provides an exposure to a variety of lifetime physical and leisure skills. It includes a variety of individual, dual and team, physical activities; cultural and social recreational activities; managing and planning leisure time; and an introduction to personal health associated with lifetime leisure pursuits.

**Note:** An additional lab fee of \$40 will be charged for this course.

**PHED 1216 – Program Planning for Physical Activity and Sport**

(3 credits – TG) 3 hours lecture or 6 hours lecture for 7 weeks

An in-depth study of the theory, methods, techniques, and skills used in planning physical activity and sport programs. Topics include principles of program planning; identification of program needs; program planning in specific settings; and program evaluation.

**PHED 1219 – Recruiting and Training Volunteers in Physical Activity and Sport**

(3 credits – TG) 6 hours lecture per week for 7 weeks

A study of the role of the volunteer in physical activity and sport. The focus will be on the principles and strategies of recruiting and training volunteers for physical activity and sport programs.

**PHED 1222 – Physical Activity and Sport – Promotion and Sales**

(3 credits – TG) 3 hours lecture

An examination of the promotion component of marketing. Concepts and strategies of promotion will be studied, these include; advertising, publicity, personal selling, and sales presentation as applied to physical activity and sport programs, products and services.

**PHED 1225 – Organization and Administration of Sport**

(3 credits – TG) 3 hours lecture

This course provides an examination of the role, function and relationships of the administrator of athletic programs, their responsibilities to the athlete, coach, spectators, sponsor and the program. It is designed to give a philosophical overview as well as practical administrative skills to the sports and athletic program administrator.

**PHED 1239 – Introductory Badminton**

(1.5 credits – TG) 3 hours lecture for 7 weeks

This is an introductory course in badminton with the emphasis on skills, teaching and coaching strategies as well as the organization of clinics and tournaments.

**PHED 1249 – Introductory Tennis**

(1.5 credits – TG) 3 hours lecture for 7 weeks

This is an introductory course in tennis with the emphasis on skills, teaching and coaching strategies and the organization of clinics.

**PHED 1259 – Fundraising in Physical Activity and Sport**

(1.5 credits – TG) 3 hours lecture for 7 weeks

An insight into the ways and means by which support (financial and otherwise) may be obtained and sustained for physical activity and sport programs. The emphasis will be on strategies, planning methods and the implementation techniques associated with fundraising efforts.

**PHED 1293 – Introductory Aquatic Lifesaving**

(3 credits – TG) 3 hours lecture

Students will learn techniques of first aid, artificial respiration and other emergency care procedures required to assist a victim of an aquatic emergency. Students will also learn and perfect life saving skills related to water rescue. The Lifesaving Society Bronze Medallion and Bronze Cross Awards will be available to students who successfully meet all evaluation criteria.

*Prerequisite: Students must be comfortable in deep water and be able to swim 200 metres continuously.*

**Note:** Students will be responsible for payment of fees to outside organizations when the issue of a certificate involves a fee.

### PSYC 1105 – Introduction to Psychology (formerly PSYC 2205)

(3 credits - TG) 3 hours lecture

This course introduces the history, methods, and current state of knowledge in modern psychological research. A wide range of content areas will be surveyed, including biological psychology, learning, memory, perception, personality, psychological disorders, therapy, stress, social psychology, psychological development in children, and the ethics of research. Additional topics may be included at the discretion of the instructor.



### PSYC 1121 – Interpersonal Communications I (formerly PSYC 1221)

(3 credits – TG) 3 hours lecture

This course provides an opportunity to explore some important aspects of interpersonal communication, to develop a greater understanding of interpersonal effectiveness, and on the basis of this understanding to practice behaviours, that increase interpersonal effectiveness.

### PSYC 1127 – Problem Solving and Decision Making (formerly PSYC 2227)

(3 credits – TG) 3 hours lecture

When people solve problems and make decisions, what steps and processes are involved? What is creative thinking, what is critical thinking, and how does each contribute to effective problem solving and decision making? What strategies are used by highly successful problem solvers and decision makers? What are the common obstacles to effective problem solving and decision making and how can these be overcome? How can we become more adept at solving problems and making decisions in academic, work, interpersonal, and everyday settings? This course will address these issues by reviewing relevant theories and research findings from the field of cognitive psychology.

### PSYC 2212 – Behavioural Statistics I (formerly PSYC 3312)

(3 credits – TG) 2 hours lecture, 1 hour tutorial, 1 hour lab

This course provides an introduction to descriptive and inferential statistical techniques as applied to behavioural research. Tabulation, graphic representation and reduction of data, correlation, chi square, probability, t-distribution and one-way analysis of variance are all examined.

*Prerequisite: Mathematics 30 (pure or applied) or equivalent, and Psychology 1101 or Psychology 1102, or Psychology 1105.*

**Note:** Psychology 2212/2213 = U of C PSYC 312.

### PSYC 2213 – Research Methods I (formerly PSYC 3313)

(3 credits – TG) 2 hours lecture, 2 hours lab

This course is an introduction to basic research methods in psychology. Students will examine both the theory and application of a variety of research techniques including observation, surveys/questionnaires, and experimentation. The lab component of the course involves practical experience in defining and understanding key aspects of these techniques and applying these techniques to address a variety of psychological research questions.

*Prerequisite: Psychology 2212.*

**Note:** Psychology 2212/2213 = U of C PSYC 312. Psychology 2213 = Athabasca University PSYC 304. Credit will be allowed for only one of Psychology 2213 and PSYC A304.

### PSYC 2223 – Interpersonal Communications II: Teamwork, Diversity, and Conflict Resolution

(3 credits – TG) 3 hours lecture

Students will explore teamwork, diversity, and conflict resolution as three key aspects of work communication. Students will be assisted in developing conceptual understandings of these topics through illustrative case studies which consider a variety of work situations, through role plays, and through selected readings. Facilitated teamwork in seminars, in projects, and in presentations, as well as journal activities, will assist students in making their learning relevant to their current and anticipated work settings.



*Recommended preparation: Psychology 1121.*

### PSYC 2235 – Life-Span Development (formerly PSYC 3325)

(3 credits – TG) 3 hours lecture

This course provides an overview of the major developmental stages from birth to death. Development will be studied from a variety of theoretical perspectives and the application of theory to practical situations will be examined.

*Prerequisite: Psychology 1101 or Psychology 1102 or Psychology 1105.*



### PSYC 2245 – Social Psychology (formerly PSYC 3345)

(3 credits – TG) 3 hours lecture

Students will examine social psychological approaches to understanding social influence, social perception and cognition, attitudes and group dynamics.

*Prerequisite: Psychology 1101 and 1102, or 1105.*

**Note:** Psychology 2245 = Athabasca University PSYC 379. Credit will be allowed for only one of Psychology 2245 and PSYC A379.



### PSYC 2265 – Cognitive Psychology (formerly PSYC 3365)

(3 credits – TG) 3 hours lecture

This course provides a survey of the major areas of research and theory in cognitive psychology. Topics may include the origins of cognitive psychology in traditional learning theories, as well as contemporary views of neurocognition, attention, perception, language, memory, problem solving, creativity and intelligence.

*Prerequisite: Psychology 1102 or 1105.*

**Note:** Psychology 2265 = Athabasca University PSYC 355. Credit will be allowed for only one of Psychology 2265 and PSYC A355.



### PSYC 2283 – Personality (formerly PSYC 3383)

(3 credits – TG) 3 hours lecture

This course emphasizes a scientific approach to the study of personality formation. It examines theories and research related to the structure and dynamics of personality. Five main theoretical views are covered: psychodynamic, learning, humanistic, existential, and trait. Representative theories are presented for each perspective along these lines: main concepts and hypotheses, empirical work (e.g., measurement of individual differences), and/or psychotherapeutic applications. The course establishes links of divergence, convergence, and similitude between the different theories of personality.

*Prerequisite: Psychology 1101 or 1105.*

**Note:** Psychology 2283 = Athabasca University PSYC 356. Credit will be allowed for only one of Psychology 2283 and PSYC A356.



### PSYC 2285 – Introduction to the Psychology of Abnormal Behaviour (formerly PSYC 3385)

(3 credits – TG) 3 hours lecture

This senior-level course is a survey of the symptoms, causes and treatment of psychological disorders as they occur across the lifespan. Through lecture, videos and in-class applied exercises, students will consider the experience of psychological abnormality and study contemporary methods used in clinical diagnosis and intervention.

*Prerequisite: Psychology 1102 or 1105.*

**Note:** Psychology 2285 = Athabasca University PSYC 435. Credit will be allowed for only one of Psychology 2285 and PSYC A435.



**PSYC 3305 – History of Psychological Thought**

(3 credits – TG) 3 hours lecture

In this course, students will examine the societal, philosophical, and scientific trends that, beginning in ancient Greece, ultimately gave rise to modern psychology. In addition, students will learn how the topics of psychology were investigated prior to the formation of psychology as a distinct scientific discipline.

*Prerequisite: Psychology 1101 and 1102, or 1105, plus any two 2000-level Psychology courses (excluding 2212 and 2213).*

**PSYC 3307 – Evolutionary Psychology**

(3 credits) 3 hours lecture

This course examines psychological questions about behaviour from an evolutionary perspective. Following a basic overview of evolutionary theory, this course will look at the origins of behaviours such as language, social cooperation, parenting, aggression, mate selection, and sex.

*Prerequisites: Psychology 1101 and 1102 (or 1105), and any two 2200-level Psychology courses (not including 2212 and 2213), and Psychology 3375.*

**PSYC 3319 – Psychology of Death and Dying**

(3 credits – TG) 3 hours lecture

The course examines social and psychological aspects of death and dying, such as: historical and cross cultural variability in death attitudes, spirituality, the dying process, ethical issues such as euthanasia and suicide, bereavement, burial practices and death perceptions across the life-span.

*Prerequisite: Psychology 1101 and 1102, or 1105, or consent of the department.*

**PSYC 3323 – Research Methods II**

(3 credits) 2 hours lecture, 2 hours lab

This course reviews and extends research concepts, practices, and designs introduced in Psychology 2213. Students will gain more in-depth hands-on experience with core elements of the research process while critiquing, designing and conducting small research projects. In addition, specialized techniques in social science research will be introduced. This course lays a foundation for honours thesis research.

*Prerequisite: Psychology 2213.*

**Note:** this course is restricted to students who are officially accepted and enrolled in the Psychology Honours Program.

**PSYC 3327 – Psychology of Sexuality**

(3 credits – TG) 3 hours lecture

This course emphasizes psychological theory and research concerning human sexuality. It reviews methods and methodological problems in research on sexual behaviour. It covers basic information about sexual physiology and function, sexual development and differentiation, sexual behaviour, attraction, intimacy, sexual orientation and sexual dysfunction.

*Prerequisite: Psychology 1101 or 1105, and 2213.*

**PSYC 3346 – Social Psychology: Social Influence and Persuasion**

(3 credits) 3 hours lecture

This course explores theories and research concerning social influence, with particular attention to compliance, conformity, persuasion and obedience. It will also explore how the principles of social influence apply to real world phenomena.

*Prerequisite: Psychology 2245.*

**PSYC 3347 – Psychology of Gender**

(3 credits – TG) 3 hours lecture

This course takes a psychological approach to the study of gender stereotypes, the empirical evidence for female-male differences and similarities in behaviour and experience, and the implications of gender roles for interpersonal relationships and social roles. Biologically-based and socially-based explanations will be evaluated.

*Prerequisite: Psychology 1101 and 1102, or 1105.*

**PSYC 3351 – Topics in Child Development**

(3 credits – TG) 3 hours lecture

This course focuses on psychological development from conception through childhood and adolescence, examining such topics as the development of cognition, emotion, identity, moral thinking, and psychosocial abilities.

*Prerequisite: Psychology 2235 or consent of the department.*

**Note:** Psychology 3351 = Athabasca University PSYC 323. Credit will be allowed for only one of Psychology 3351 and PSYC A323.

**PSYC 3353 – Topics in the Psychology of Aging**

(3 credits – TG) 3 hours lecture

This course examines the nature, causes and implications of developmental changes across the middle and later adult years. Following a basic overview of theoretical perspectives and research methods used in the area, the course will look at age-related changes in physiological, psychological, and social functioning. Diversity in later adulthood is also discussed, as it is reflected in gender and in cultural, lifestyle and individual variability.

*Prerequisite: Psychology 1102 and 2235 or consent of the department.*

**Note:** Psychology 3353 = Athabasca University PSYC 381. Credit will be allowed for only one of Psychology 3353 and PSYC A381.

**PSYC 3355 – Topics in Adolescence**

(3 credits – TG) 3 hours lecture

This course investigates the impact of various factors (environment, peers, family, school, work and media) on developmental processes that occur during adolescence. Theories and research are put into a meaningful framework to emphasize the diversity of this decade of development.

*Prerequisite: Psychology 2235 or consent of the department.*

**Note:** Psychology 3355 = Athabasca University PSYC 350. Credit will be allowed for only one of Psychology 3355 and PSYC A350.

**PSYC 3367 – Human Memory**

(3 credits) 3 hours lecture

This course provides an overview of the history, current theories, and research findings relating to human learning. Processes involved in encoding, storing and retrieving information from memory stores will be studied by examining such topics as implicit and explicit memory, autobiographical memory, and constructive processes.

*Prerequisite: Psychology 2213 and 2265.*

**PSYC 3369 – Sensation and Perception**

(3 credits – TG) 3 hours lecture

The course will provide students with an understanding of how the brain receives and processes information about the world around us. This will include the basic anatomy and physiology of the primary sensory systems, the scientific methods used to measure sensory function, and how information is represented in neural processing. The course will also look at traditional and cutting edge approaches to object perception, theories of depth perception, color perception, pattern recognition, motion, attention and at the processes of bottom-up and top-down processing and how they interact.

*Prerequisite: Psychology 1105 or 1102.*

**PSYC 3375 – Brain and Behaviour**

(3 credits – TG) 3 hours lecture

This course encourages students to adopt a biological perspective towards psychological questions and issues. From a basic overview of brain anatomy and neuron physiology, the course looks at a varied selection of topics such as vision, brain damage and recovery. Alzheimer's disease, sleep and dreaming, drug addiction, learning, aggression and schizophrenia. All these topics are of interest to psychologists and all can be reduced to, and understood in terms of, the operations of the nervous system.

*Prerequisite: Psychology 1101 and 1102, or 1105.*

**Note:** Psychology 3375 = Athabasca University PSYC 402. Credit will be allowed for only one of Psychology 3375 and PSYC A402.

### **PSYC 4401 – Social Cognition**

(3 credits) 3 hours lecture

This seminar course examines theories and research results pertaining to the structures (self, person, role, and event schemas) and processes (expectations, attributions, and inferences) underlying self and person perception.

*Prerequisite: Psychology 2245.*

### **PSYC 4402 – Psychopharmacology**

(3 credits) 3 hours lecture

This course provides an introduction to the relationship between drugs, the brain, and behaviour. Students will learn how neuropharmacologic agents (psychotropic and psychotherapeutic drugs), through their influence on the biochemistry and physiology of neurons and neurotransmitter systems, affect nervous system function, and thus behaviour.

*Prerequisite: Psychology 3375.*

### **PSYC 4403 – Advanced Topics in Brain and Behaviour**

(3 credits) 3 hours lecture

A basic review of brain anatomy and physiology will be followed by an exploration of topics such as neurodevelopment, neuroplasticity, neuroendocrinology and psychoneuroimmunology. These areas of biopsychological study will be examined in relation to abnormal neural and behavioural function in disorders such as autism, depression, epilepsy, multiple sclerosis and schizophrenia.

*Prerequisites: Psychology 2212, 2213 and 3375.*

### **PSYC 4406 – Introduction to Counselling and Psychotherapy**

(3 credits) 3 hours lecture

This course critically examines the basic principles and therapeutic processes that characterize mainstream counselling/psychotherapy approaches, such as those based on the Psychodynamic, Behavioural and Cognitive-Behavioural, Humanistic, and Contextual/Systemic perspectives.

*Prerequisite: Psychology 2285 or consent of the department.*

### **PSYC 4412 – Behavioural Statistics II**

(3 credits) 2 hours lecture, 2 hours lab

This course reviews material from PSYC2212 and introduces more advanced analyses. Students will learn to screen data and to conduct analyses including multi-factor ANOVA, planned comparisons, multiple regression, and non-parametric tests. Brief conceptual introductions to less common analyses (e.g. factor analysis, mediation analysis, structural equation modeling, MANOVA/MANCOVA) will be provided.

*Prerequisites: Psychology 2213 and Psychology 3323.*

**Note:** This course is restricted to students in the final year of their program who are officially accepted and enrolled in the Psychology Honours Program.

### **PSYC 4451 – Atypical Child Development**

(3 credits) 3 hours lecture

Psychology 4451 provides a critical examination of issues pertaining to developmental psychopathology during childhood and adolescence with an emphasis on the characteristics of the disorders of development, their determinants, outcomes and interventions. Contemporary research and theories as well as current approaches to intervention and prevention will be emphasized.

*Prerequisite: Psychology 2213, 2285 and 3351.*

### **PSYC 4455 – Advanced Topics in Adolescence**

(3 credits) 3 hours lecture

Course seminars will examine the foundations and pathways, normative and psychopathological, of adolescent development. Small-scale hypothesis-driven studies and multilevel research designs are utilized to demonstrate the complexity of the study of adolescent development. Advances in theory and research pertaining to the biological, cognitive, emotional, and social development of adolescents, including emerging adulthood, will be emphasized.

*Prerequisite: Psychology 3355.*

### **PSYC 4483 – Advanced Topics in Social Psychology**

(3 credits) 3 hours seminar

This is an advanced course that explores psychological theory, research, and applications related to group dynamics and processes. Topics include group formation, development, structure, cohesion, influence, power, performance, decision making, leadership, conflict, relations, and context.

*Prerequisites: Psychology 2245.*

### **PSYC 4485 – Advanced Topics in the Psychology of Abnormal Behaviour**

(3 credits) 3 hours lecture

This course surveys current controversies in clinical psychology related to legal and ethical issues, research, and the diagnosis and treatment of psychological disorders.

*Prerequisite: Psychology 2213 and 2285.*

### **PSYC 5110 – Honours Seminar I**

(3 credits) 3 hours seminar

Psychology 5110 is a weekly seminar course for students in the honours stream. The seminar will provide students with a variety of practical, technical, and intellectual skills that are central to scientific research and to the development of their honours thesis. Emphasis will be placed on students' ability to think critically and independently.

*Prerequisite: Psychology 3323.*

**Note:** This course is restricted to students in the final year of their program who are officially accepted and enrolled in the Psychology Honours Program.

### **PSYC 5120 – Honours Seminar II**

(3 credits) 3 hours seminar

Psychology 5120 is a weekly seminar course for students in the Honours stream. The seminar will provide students with the opportunity to conduct research in their area of interest, gather data, analyze and present findings, and develop a written thesis. Some projects may be non-empirical or theoretical, in which case certain steps (e.g. gathering data) may be modified accordingly. The honours thesis project is conducted under the direct guidance of a faculty supervisor from the Department of Psychology.

*Prerequisite: Psychology 4412 (Behavioural Statistics II) and Psychology 5110 (Honours Seminar I.)*

**Note:** this course is restricted to students in the final year of their program who are officially accepted and enrolled in the Psychology Honours Program.

### **PSYC 3199, 4199 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## **RECREATION STUDIES (RECR)**

### **RECR 1132 – Twentieth Century Arts and Crafts: An Introduction**

(3 credits – TG) 3 hours lecture

This course is an experiential exploration of arts and crafts incorporating various media.

### **RECR 1147 – Introduction to Voluntarism**

(3 credits – TG) 3 hours lecture

This course provides a study of the volunteer in the community. Discussion will include a brief history of voluntarism, the recruitment and training of volunteers and the role of volunteers in the planning and delivery of community programs. The focus of the course is on the principles of volunteer management in a wide variety of community service environments.

**RECR 1175 – Introduction to Tourism**

(3 credits – TG) 3 hours lecture

This course provides a survey of the history, principles, organization, planning, regional attitudes, behaviour, patterns and vocational opportunities in tourism.

**RECR 1203 – Recreation and Community Development**

(3 credits) 3 hours lecture

This course examines the model of community development and how it is used to empower individuals and communities. The recreation practitioner as a facilitator of community action will be the focus.

**RECR 1207 – Commercial Recreation**

(3 credits – TG) 3 hours lecture

This course is an investigation of the many providers of commercial recreation services.

**RECR 1211 – Administration and Governance for Community Recreation**

(3 credits – TG) 3 hours lecture

This course is a study of the principles and practices of administration and governance for community recreation.

**RECR 1217 – Marketing for Sport and Recreation**

(3 credits – TG) 3 hours lecture

This course is an investigation of principles and practices of marketing in sport and recreation studies.

**RECR 1247 – Theory and Practice in Leadership**

(3 credits – TG) 3 hours lecture

This course studies leadership theory and introduces leadership skills that apply the theory in personal, community and work settings. Students are introduced to leadership skills inventories that allow them to analyze and evaluate their leadership skills. Students will reflect on their leadership experiences and develop strategies to plan personal learning opportunities to maximize their leadership skills.

**RELIGIOUS STUDIES (RELS)****RELS 1101 – World Religions: Western (formerly RELS 2201)**

(3 credits – TG) 4 hours lecture

Introduction to Western religions including: Judaism, Christianity and Islam.

**RELS 1103 – World Religions: Eastern (formerly RELS 2203)**

(3 credits – TG) 4 hours lecture

Introduction to Eastern religions such as Jainism, Hinduism, Buddhism, Confucianism and Taoism.

**RELS 1105 – The Nature of Religion (formerly RELS 2205)**

(3 credits – TG) 4 hours lecture

An introduction to the study of religion which relates religious traditions to contemporary thought and culture.

**RELS 2207 – The Religion of the Hebrew Bible/Old Testament (formerly RELS 3301)**

(3 credits – TG) 3 hours lecture

An introduction to the critical study and reading of the books of the Hebrew Bible/Old Testament in English translation. The course focuses on the religious beliefs and institutions of ancient Israel.

**RELS 2208 – Religion and Popular Culture**

(3 credits) 3 hours lecture

This course examines religious beliefs, practices, institutions, etc. as expressed in works of popular culture. The course may focus on religion in a specific type of media (e.g., film, TV, literature, art) or on a religious theme (e.g., apocalypticism, the environment).

**RELS 2209 – The Nature and Function of Religious Experience (formerly RELS 3309)**

(3 credits – TG) 3 hours lecture

A study of ancient views and some contemporary psychological analyses of the nature and function of religious experience. Such religious phenomena as the genesis and development of religious behaviour, conversion and mysticism will be examined.

*Prerequisite: One of Religious Studies 1101, 1103, 1105 or a university-level course in Psychology.*

**RELS 2215 – World Christianity (formerly RELS 3315)**

(3 credits – TG) 3 hours lecture

This course examines Christianity as a global phenomenon, considering important issues and movements around the world. Topics include types of Christianity, Mission, Ecumenism, Pentecostalism, Fundamentalism, social justice issues, roles and status of women, globalization, secularization, and relations between Christianity and other religious traditions.

**RELS 2243 – Religion and Social Morality (formerly RELS 3343)**

(3 credits – TG) 3 hours lecture

The examination of religious views on the moral issues involved in human society, and on the moral implications of key social, economic, political and cultural elements in the modern world.

*Prerequisite: Religious Studies 1105 or Philosophy 1149 or consent of the department.*

**RELS 2251 – Sikhism (formerly RELS 3351)**

(3 credits – TG) 3 hours lecture

The central theme is the construction of Sikh identity. Particular attention will be given to the historical context from which Sikhism arose, the worldviews and goals it articulates, the development and content of its authoritative literature, and its religious practices. Sikhism outside of the Indian context may also be discussed.

*Prerequisite: Religious Studies 1103.*

**RELS 2252 – Hinduism**

(3 credits – TG) 3 hours lecture

This course is an examination of the major religious developments in Hinduism from ancient times to the modern period. The course introduces students to the central thinkers, literature, beliefs, and practices associated with Hinduism.

*Recommended Preparation: Religious Studies 1103.*

**RELS 2279 – The Buddhist Tradition (formerly RELS 3379)**

(3 credits – TG) 3 hours lecture

A study of the doctrinal development, and practices of the Buddhist tradition, including treatment of topics such as early Buddhism, Mahayana, and Tibetan Vajrayana.

*Prerequisite: Religious Studies 1103.*

**RELS 2281 – Women and Religion (formerly RELS 3381)**

(3 credits – TG) 3 hours lecture

An examination of the origins, content and influence of the view of women contained in the religious traditions and expressed in the religious practices of West and East.

*Prerequisite: One of Religious Studies 1101, 1103, 1105 or any Women's Studies course.*

**RELS 2283 – The Beginnings of Christianity (formerly RELS 3383)**

(3 credits – TG) 3 hours lecture

The history, literature and religion of the early Christians.

*Prerequisite: Religious Studies 1101 or consent of the department.*



### **RELS 3281 – Advanced Studies in Women and Religion**

(3 credits – TG) 3 hours lecture

This course provides an examination of the work of contemporary women writers on religious traditions and/or selected issues in religion and its study.

*Prerequisite: Religious Studies 2281.*



### **RELS 3302 – Selected Topics in Religion**

(3 credits – TG) 3 hours lecture

This course provides an in-depth examination of a selected topic or theme in the study of religion. Possible topics include religion and the body; religion and the environment; religious fundamentalism; religion and sexuality.



### **RELS 3322 – Religion in the Americas**

(3 credits – TG) 3 hours lecture

This course examines religion in the Americas today (especially Canada, the US, Mexico and Brazil) along with relevant historical developments. Topics may include the impacts of colonization and immigration, indigenous traditions, Church-State relations, folk Catholicism, liberation theology, Afro-Christian traditions and Spiritism, and (neo-)Pentecostalism.

*Prerequisite: Religious Studies 1101, 1103 or 1105.*

*Recommended Preparation: Religious Studies 2215.*



### **RELS 3331 – Religious Perspectives on Suffering**

(3 credits – TG) 3 hours lecture

The course will examine and critique positions that traditional philosophers of religion have taken in response to the fact of suffering, as well as those positions taken by a variety of non-western religious traditions.

*Prerequisite: One of Religious Studies 1101, 1103, 1105 or consent of the department.*



### **RELS 3333 – Religion, Death and Mortality**

(3 credits – TG) 3 hours lecture

This course consists of an examination of various religious perspectives on death, mortality and the afterlife, as well as the death rituals of different religions.

*Prerequisite: Religious Studies 1105 or consent of the department.*



### **RELS 3352 – Advanced Studies in Hinduism**

(3 credits) 3 hours lecture

This course is an in-depth study of a specific Hindu thinker, text, movement, or issue. Course content will vary from year to year. Possible topics include: the Bhagavad Gita, Gandhi, the poet saints, Sankara, the Upanisads, religious law, sacrifice, god, etc.

*Prerequisite: Religious Studies 1103.*

*Recommended Preparation: Religious Studies 2252.*



### **RELS 3353 – Advanced Studies in Sikhism**

(3 credits) 3 hours lecture

This course is an in-depth study of a specific Sikh thinker, text, movement, or issue. Course content will vary from year to year. Possible topics include the *Adi* or *Dasam Granths*, Guru Arjan, the Namdhari tradition, the *rahit* traditions, religious syncretism, Singh Sabha movement, etc.

*Prerequisite: Religious Studies 1103.*

*Recommended Preparation: Religious Studies 2251.*



### **RELS 4403 – Asian Diasporas**

(3 credits – TG) 3 hours lecture

This course considers the notions of religious and trans-national identities in and among Asian diasporas. Primary attention will be given to Hindu, Sikh, and Buddhist communities. Special consideration will be given to those communities in the local Calgary setting.

*Prerequisite: Religious Studies 2252 or 2251 or 2279.*



### **RELS 4452 – India and the West**

(3 credits – TG) 3 hours lecture

This course examines the dynamic and often ambiguous encounter between India and the West, including the resulting process of self-representation and interpretation. It also considers the various ways in which Indians and the West have sought to construct, represent, understand, and critique both themselves and the Other as a result of this encounter.

*Prerequisite: Religious Studies 2252.*

*Recommended Preparation: Religious Studies 3352.*



### **RELS 3199, 4199 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

## **ROMANCE STUDIES (ROST)**

### **ROST 1101 – Topics in Romance Culture (formerly ROST 2299)**

(3 credits – TG) 3 hours lecture

This interdisciplinary course will provide an introduction to social life, art and architecture, and the economic and political systems of three of the four following cultures of the Mediterranean: Arabic, French, Italian and Spanish. Classroom activity will be augmented by cultural activities.



### **ROST 4401 – Mediterranean Cultural Discovery**

(3 credits – TG) 3 hours lecture

This interdisciplinary course will provide a cultural opportunity to students and an experiential knowledge of social life, art, architecture, economic and political systems of different Mediterranean regions: France, Spain, Italy and other European, North African or Middle Eastern cultures.

*Prerequisite: Any four 1000, 2000 or 3000 Humanities (HUMN) courses or consent of the Department.*

*Recommended Preparation: Romance Studies 1101.*



## **SCIENCE (SCIE)**

### **SCIE 0110 – Introduction to Science**

(0 credits)

This is a credit-free upgrading course; special fees apply.

Topics include zoology, botany, microbiology, biochemistry, chemistry, Newtonian and post-Newtonian physics.

**Note:** This course is the equivalent of Science 10. Not intended for science majors.

### **SCIE 0120 – Science, Technology and Society**

(0 credits)

This is a credit-free upgrading course; special fees apply.

Topics include telecommunications, computers, nuclear, hydroelectric and other power sources, extinction and environmental issues, cancer and treatment, vaccines, AIDS, genetic engineering and careers involving new technologies.

**Note:** This course is the equivalent of Science 20. Not intended for science majors.

**SLGY 2277 – Sociology of Religion (formerly SLGY 3377)**

(3 credits – TG) 3 hours lecture

This course offers an introduction to sociological concepts and theories in the study of religion. Questions about the structure of religious organizations, creation of meaning, secularization and religious diversity will be addressed.



*Prerequisite:* Sociology 1101.

*Recommended preparation:* Sociology 1103.

**SLGY 3233 – Sociology of Sexualities**

(3 credits – TG) 3 hours lecture

This course examines sexualities through a critical sociological lens. The goal is to track how and why the predominant conceptions of sexuality have been constructed, with particular attention to the role of binary sexualities and subsequent concepts of 'deviation,' as well as how sexuality is used in and by mechanisms/institutions of power.

*Prerequisites:* Sociology 2233 and one of Sociology 2229, 2231, 2232, 2245, 2253, 2265, 2271, 2273, 2275, 2277, or consent of the department.

**SLGY 3309 – The Sociology of the Body**

(3 credits – TG) 3 hours lecture

This course focuses on matters of the body which affect social life. Through an examination of theoretical articles upon such topics as race, gender, disease, sexuality, smell, and appearance, we will learn about the many ways perceptions of bodies affect our lives and how society in turn defines and influences appearance and behaviour.

*Prerequisites:* Sociology 2233 and one of Sociology 2229, 2231, 2232, 2245, 2253, 2265, 2271, 2273, 2275, 2277, or consent of the department.

**SLGY 3315 – Sociology of Health and Illness**

(3 credits) 3 hours lecture

This course undertakes a sociological examination of health and illness. This course looks at health, organization and history of health care, and changing perceptions of health and illness. Particular attention will be paid to the impact of class, race, gender, ability, and sexuality on the prevalence, incidence, conceptualization and understanding of health in Canada.

*Prerequisites:* Any three of Sociology 2275, 2277, 2229, 2231, 2232, 2233, 2245, 2253, 2265, 2271, 2273.

**SLGY 3317 – Young Offenders and the Law (formerly SLGY 2217)**

(3 credits – TG) 3 hours lecture

In most societies, people below a certain age are thought to be less than fully culpable or cognizant of the consequences of their actions. As a result, juvenile justice systems are established to deal with them separately from adults. Using sociological theory, this course will consider Canada's strategies for addressing young people, illegal activities, and legal consequences.



*Prerequisites:* Sociology 2229 and one of Sociology 2231, 2232, 2233, 2245, 2253, 2265, 2271, 2273, 2275, 2277 or consent of the department.

**SLGY 3321 – Quantitative Methods and Statistics**

(3 credits – TG) 2 hours lecture, 1 hour lab

This course focuses on the development of quantitative analytical skills in sociology. Students will study quantitative methods for gathering, preparing, analyzing, and interpreting social data, and also will be introduced to both descriptive and inferential statistics (including bivariate and simple multi-variate analysis). They will also be required to undertake secondary data analysis.

*Prerequisites:* Sociology 2232 and one of Sociology 2229, 2231, 2233, 2245, 2253, 2265, 2271, 2273, 2275, 2277 or consent of the Department.

Note: required course for sociology major and honours students.

**SLGY 3323 – Qualitative Research Methods**

(3 credits – TG) 2 hours lecture, 1 hour lab

This course presents an overview of qualitative methods in sociological research. Students will examine the strengths and weaknesses of qualitative methods such as interviewing techniques, fieldwork, and the case study approach, as well as how their lives - as researchers - intersect with and influence the people and situations they study.

*Prerequisites:* Sociology 2232 and one of Sociology 2229, 2231, 2233, 2245, 2253, 2265, 2271, 2273, 2275, 2277 or consent of the department.

**SLGY 3333 – Contemporary Social Theory**

(3 credits – TG) 3 hours lecture

This course explores several major currents of contemporary social thought since the World War Two era. Some of the theoretical perspectives that will be investigated are Western Marxism, Post-Structuralism, Post-Modernism, and theories of Globalisation/Post-Colonialism. These will be explored through their applicability to sociological issues of interest, such as subjectivity, agency/structure, power, and modernity.

*Prerequisites:* Sociology 2231 and one of Sociology 2229, 2232, 2233, 2245, 2253, 2265, 2271, 2273, 2275, 2277 or consent of the department.

**SLGY 3351 – Economic Sociology**

(3 credits – TG) 3 hours lecture

Using a sociological lens to examine markets, networks, social stratification, economic development and globalization reveals ways in which these diverse economic phenomena are embedded in societies. In addition, the sociological approach reveals how consumption is connected to status symbols, how gender affects work and pay, and how international production and trade can challenge national sovereignty.

*Prerequisites:* Sociology 2265 and one of Sociology 2229, 2231, 2232, 2233, 2245, 2253, 2271, 2273, 2275, 2277 or consent of the department.

**SLGY 3370 – The Socialized Self**

(3 credits – TG) 3 hours lecture

Drawing on a number of interpretive sociological perspectives, this course explores the process of socialization and the related process of the development of the self. Key concepts in the study of socialization such as role, identity, institution and ideology will be critically investigated, as will the role of socialization processes in the perpetuation of inequality and domination.

*Prerequisites:* Sociology 2275 and one of Sociology 2229, 2231, 2232, 2233, 2245, 2253, 2265, 2271, 2273, 2277 or consent of the department.

**SLGY 4411 – Sociology of Disaster**

(3 credits) 3 hours lecture

This course is an introduction to the sociological study of disasters and their effect on human populations. The goal of the course is to understand how floods, hurricanes, heat waves, oil spills and other catastrophic events provide a "strategic research site" where we can refine our ideas and assumptions about social life and inequality.

*Prerequisites:* Any three of Sociology 3233, 3309, 3317, 3321, 3323, 3333, 3351, and 3370.

**Sociology 4415 – (De)Constructing Health and Medicine**

(3 credits) 3 hours lecture

This course examines the changing conceptions of medicine and medical knowledge. More specially, it looks at how health, illness, and disease are defined and the implications of such representations and understandings. Particular attention is given to the ways in which medical knowledge invokes, represents, and implicates gender, race, class and sexuality.

*Prerequisites:* Sociology 3315 (Sociology of Health and Illness) and two of Sociology 3333, 3309, 3317, 3351, 3321, 3323, 3370.

**WMST 2221 – Women and Health  
(formerly WMST 3321)**

(3 credits – TG) 3 hours lecture

An interdisciplinary examination of women's experience of physical and psychological health, of perceptions and treatment of women in health care systems, and of the role of women as health care providers in families and society. Examples will come primarily, but not exclusively, from the Canadian context.

*Recommended Preparation:* Women's Studies 1172 or one senior Women's Studies course.

**WMST 2239 – Gender and Popular Culture  
(formerly WMST 3339)**

(3 credits – TG) 3 hours lecture

This course will introduce students to feminist and postmodern theoretical perspectives on gender and popular culture. Selected themes may include gender and spectatorship; representing difference; advertising as ideological practice; cyberbodies and technoculture; and subculture and cultural resistance.

**WMST 2241- Women in Canada**

(3 credits - TG) 3 lecture hours

This course examines women's experiences in Canada from the 18th to the 21st century. Themes include family, sexuality, politics, economic roles, the law, social welfare, feminism, race, ethnicity and immigration.

**WMST 2283 – Women and Aging  
(formerly WMST 3383)**

(3 credits – TG) 3 hours lecture

An interdisciplinary examination of the reality and variation in women's lives as they age. The focus will be on Canadian society in social and historical context, but comparisons and examples will be taken from other societies, both developing and developed.

*Recommended Preparation:* Women's Studies 1172 or one senior Women's Studies course.

**WMST 3301 – Feminist Theories**

(3 credits) 3 hours lecture

This course provides an introduction to Western European and North American feminist writings and their relationship to women's movements from the 17th to the early 21st centuries. The effects of historical ideas about gender, race, class and sexuality on early feminist analyses and visions of social change will be considered.

*Prerequisite:* Women's Studies 1172.

**WMST 3302 – Feminist Research and Methods**

(3 credits – TG) 3 hours lecture

This course is a feminist examination of the connections between epistemology, method and methodology. This course explores a range of approaches taken by feminist researchers when rethinking traditional analytic paradigms in order to create distinctly feminist models to guide their work.

*Prerequisite:* Women's Studies 3301.

**WMST 3311 – Race, Femininity and Representation.**

(3 credits – TG) 3 hours lecture

This course will examine the conventions by which subjugated colonial female identities are constructed, contested and negotiated in and through Eurocentric practices of intercultural representation. Various strategies aimed at challenging dominant codes of intercultural representation will be considered in terms of their potential to foster more empowering identities for women.

*Prerequisite:* Women's Studies 2239 or Sociology 2275.

**WMST 3345 – Sex, Gender and the Body**

(3 credits) 3 hours lecture

This course will examine the diverse and historically varying relationships forged between biological sex, culturally formulated discourses of masculinity and femininity, and the sexed body. Topic areas will include: scientific discourse and medical research, health care, popular culture, body image, religious practices, and violent conflict.

*Recommended Preparation:* Women's Studies 1172.

**WMST 3346 – Gender, Culture and Technology**

(3 credits – TG) 3 hours lecture

An examination of the power relations structuring the development and use of technology. This course explores the interplay between gender, race, class and various technologies on the everyday lives of women, both locally and globally. The problems and possibilities associated with technological development will be considered.

*Prerequisite:* Women's Studies 1172, 2205, 2221, 2239, 2241 or 2283

**WMST 3199, 4199 – Directed Readings**

See *Directed Readings* which are listed alphabetically in this section of the calendar.

**ZOOLOGY (ZOOL)****ZOOL 3377 – The Vertebrates**

(3 credits – TG) 3 hours lecture, 3 hours lab

Comparative anatomy; a basis for understanding the functional organization, development and adaptive radiation of vertebrates.

*Recommended Preparation:* Biology 3206.

**ZOOL 3379 – Patterns of Animal Development**

(3 credits – TG) 3 hours lecture, 3 hours lab

An introduction to animal development through detailed examination of model systems. Topics will include: gametogenesis, fertilization, early development to neurulation, the vertebrate body plan, morphogenesis, cell fates, pattern formation, sex determination, evo/devo.

*Prerequisite:* Biochemistry 3393 or U of C BCEM 411, and Biology 2101.

## STUDENT LEARNING SERVICES

### Developing Self-Directed Learners

Failure to meet with an Access Advisor prior to the beginning of the semester may result in academic accommodations and disability-related services not being available at the beginning of the first semester at Mount Royal.

### Writing and Learning Services

- FREE workshops for Mount Royal students
- 30-minute, one-on-one appointments for specific, personalized information tailored to your needs
- Time management, textbook reading, note making, learning in class, study and test-taking tips, grammar review, writing strategies, organizing research papers, referencing
- Drop-In for APA, MLA and Chicago Referencing

Call 403.440.440.6452 or come to T123 to book an appointment

[www.sls@mtroyal.ca](http://www.sls@mtroyal.ca)

### Peer Tutor Program

#### Be smart, get a tutor

- Get help with course content
- You may be eligible for up to two hours of free tutoring/week

#### Share your knowledge, be a tutor

- Earn spending money
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Call 403.440.6452 or come to T123 now and get started!

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## ACCESSIBILITY SERVICES

### Are you a student with a learning, physical, sensory or psychiatric disability?

- Did you know that you may be eligible for classroom accommodations and/or access services?
- You must be registered with Accessibility Services to access academic accommodations
- Contact us today to book your appointment with an Access Advisor
- **Failure to meet with an Access Advisor prior to the beginning of the semester may result in academic accommodations and disability-related services not being available at the beginning of the first semester at Mount Royal.**

Call 403.440.6868 or come to Y201 to book an appointment.

[www.accessibility@mtroyal.ca](http://www.accessibility@mtroyal.ca)

## STUDENTS' ASSOCIATION

The Students' Association of Mount Royal University (SAMRU) is the independent voice of all students at Mount Royal University. SAMRU works to enhance students' lives in a meaningful way by delivering high quality services, leadership, advocacy and support. SAMRU serves students to help them succeed.

The Students' Association of Mount Royal University is a charitable, nonprofit organization run for students, by students. It is one of the the oldest students' associations in Alberta and has been around since at least 1913 in one form or another. SAMRU currently operates under the legislative authority of the Post-Secondary Learning Act of Alberta. SAMRU has set itself the task of ensuring that the students of Mount Royal University have an opportunity to participate in all matters that affect the quality of student life at the University

### The Wyckham House Student Centre

The Students' Association of Mount Royal University has always been visionary and strongly independent. Back in 1964, students received a government grant to be used for the creation of a student building. Students added to this money using student fees to create a building fund, which would eventually be used to build a student center. After relocating twice, the Wyckham House Student Centre became the home of the Students' Association. Officially opened in September 1987, Wyckham House is the student centre of the Mount Royal University campus, offering services and a social environment for the University community, and in particular, the students of the University.

Wyckham House has four levels. The basement level houses the Student Benefits Plan office, the CopyWrite, Postal Outlet, Ticketmaster, Bright Dental Clinic, and the Reflector newspaper office. The main level includes the Food Court (with eleven food kiosks to choose from), the Collegiate Shop offering convenience items, and the Liberty Lounge. On the second level, you can find: the Peer Support Centre, the AccessAbility Centre, the Native Student Centre, the Sustainability Centre, Students' Council chambers, the Executive Committee and staff offices, a study lounge with natural light and a TV lounge. The third level contains the Clubhouse with club lockers, meeting rooms, the Cultural Mosaic Centre, the Student Outreach and Safewalk office, the Diversity Centre, and additional staff offices.

### Student Centre Expansion

To meet the needs of a growing student population, Wyckham House has recently undergone a massive expansion, adding almost 45% more space for necessary student services. Expansion has provided new student service centres, additional volunteer centres, more food kiosks, a new Council Chambers, more administrative offices, space for clubs, and additional studying spaces. Our vision is to be the vibrant hub on campus.

### Student Government at Mount Royal University

The Students' Association of Mount Royal University is governed by a Students' Council which includes a full-time Executive Committee comprised of the President and three Vice-Presidents, six student representatives for various faculties, four diversity representatives and four commissioners. The Students' Council Executive Committee is elected annually in February of each year by a popular vote of the Association's membership.

### Representation

The Students' Association works to ensure that the student voice is heard at all decision-making levels in the University and to the government. Students' Association representatives have a voice on both of the University's governing boards: the Board of Governors and General Faculties Council and their subcommittees. Student representation for University committees is provided through the Association. These committees address a broad range of issues affecting campus life and academics.