Prerequisite: A 1000-level social science course.

Degree credit exclusion: AS/PHED 3530 3.0.

AS/KINE 3540 3.0 Play Environments. The role of play environments from both a macro- and micro-theoretical and applied perspective. How does the cultural, political, economic, ecological and psycho-social environment shape play behaviour? Three hours per week. One term.

Degree credit exclusion: AS/PHED 3540 3.0.

AS/SC/KINE 3570 3.0 Theory and Methodology of Training. The course provides an examination of the scientific and methodological theories, techniques and planning methods utilized in the training of the skilled athlete, with practical application to selected sports. Three lecture hours per week. One term.

Prerequisites: AS/SC/KINE 1000 4.0; AS/SC/KINE 1020 4.0.

Degree credit exclusion: AS/PHED 3570 3.0.

AS/SC/KINE 3580 3.0 Coaching: The Strategy and Tactics of Sport. This course investigates the conceptual basis of strategic and tactical planning for sports performance. An emphasis is placed on analyzing the variety of sources that contribute to the conceptual framework a coach may use in formulating strategic and tactical plans. Three lecture hours per week. One term.

Prerequisites or corequisites: AS/SC/KINE 2475 3.0.

AS/SC/KINE 3585 3.0 Clinical Placement in Athletic Therapy. This course provides students with the opportunity to gain practical experience in clinical situations within the profession of athletic therapy. Students integrate theory and practice in actual workplace situations by working directly with sports medicine specialists. Ten hours clinical placement per week, five one-and-a-half hour seminars. One term.

Prerequisites: Open only to Athletic Therapy Certificate students, with permission of the athletic therapy program coordinator.

AS/SC/KINE 3600 3.0 Athletic Therapy II. This course provides students with a broad spectrum of knowledge relating to the physiological and pathological aspects of participation in sport with an emphasis on detection and human factors in injury prevention and remediation. Three lecture hours per week. One term.

Prerequisite: AS/SC/KINE 2490 3.0.

Degree credit exclusion: AS/SC/PHED 3600 3.0.

AS/SC/KINE 3610 3.0 Coaching: Psychological and Sociological Aspects. The course focuses upon the application of principles of psychology to coaching. An examination of philosophy of coaching, legal liability, socialization and team dynamics is also undertaken with a view to establishing effective coaching methodology. Three lecture hours per week. One term.

Prerequisites: AS/SC/KINE 2475 3.0; AS/SC/PSYC 1010 6.0.


AS/KINE 3620 3.0 Sociology of Sport I. Sociological analysis of sport in contemporary society with particular emphasis on issues relating to children, gender and the Canadian scene. Three lecture hours per week. One term.

Degree credit exclusions: AS/SC/PHED 3620 3.0, AS/SOCI 3670 3.0.

AS/KINE 3630 3.0 Race and Sport. The purpose of the course is to explore the concepts of "race" and its ideologies applied to sport, the unique conditions of minority athletes, and historical transformations. Three lecture hours per week. One term.

Prerequisite: AS/SC/KINE 1000 4.0 or AS/SC/KINE 2010 3.0.

AS/SC/KINE 3640 3.0 Epidemiology of Physical Activity, Fitness and Health. This course provides an in-depth assessment of the epidemiology of physical activity, fitness and health. General concepts of epidemiology are covered, as well as associations among activity, exercise, fitness and disease/risk factors. Three lecture hours per week. One term.

Prerequisite: AS/SC/KINE 2020 3.0.

Degree credit exclusion: AS/SC/KINE 3050B 3.0.

AS/SC/KINE 3645 3.0 Physical Activity and Health Promotion. This course explores social marketing techniques and strategies in the promotion of physical activity and health from a public policy perspective. Exploring the scientific rationale and justification for workplace and community-based physical activity and lifestyle programs is emphasized. Three lecture hours per week. One term.

Prerequisites: AS/SC/KINE 1020 4.0; AS/SC/KINE 2020 3.0.

4000-Level Courses

Note: Only students Honours standing may register in 4000-level kinesiology and health science courses.

AS/SC/KINE 4010 3.0 Physiology of Exercise. The study of the physiological mechanisms involved during physical activity. The course covers the physiological effects of exercise and training upon the neuromuscular, cardiovascular, respiratory and metabolic systems. Three lecture hours per week, two laboratory/tutorial hours in alternate weeks. One term.

Prerequisites: AS/SC/KINE 3011 3.0; AS/SC/KINE 3012 3.0.

AS/SC/KINE 4020 3.0 Human Nutrition I. Basic energy and regulatory nutrients are examined, followed by an applied nutrition section in weight control, eating disorders, sport nutrition, food as drugs and food safety. Metabolic interrelationships and health associations are applied throughout. Three lecture hours per week. One term.

Prerequisites: AS/SC/KINE 2010 3.0; AS/SC/PHED 4020 3.0.

Degree credit exclusions: AS/SC/KINE 2020 3.0; AS/SC/KINE 3011 3.0.

AS/SC/KINE 4070 3.0 Independent Studies in Kinesiology and Health Science. Students undertake a research project under the supervision of a faculty member. This should include a library investigation, and may include laboratory and/or field investigations. A substantial paper, a poster presentation and an oral presentation are part of the course requirements.

Prerequisite: Normally only available to students after completion of 84 credits.

Note: See the Faculty of Arts section of this Calendar for Faculty of Arts regulations on independent reading courses. Not all independent studies topics are eligible for science (SC) credit.

AS/SC/KINE 4350 3.0 Women and Sport. This course examines the accelerating emergence of women and girls in sport traditionally organized as exclusive male domain. The dynamics between women’s aspirations in competitive sport, and cultural/systemic barriers to equality, are studied. Three lecture/discussion hours per week. One term.

Prerequisites: AS/SC/KINE 1000 4.0 or AS/SC/KINE 2010 3.0; AS/SC/KINE 3650 3.0.

Degree credit exclusion: AS/SC/KINE 4350 6.0.

Note: Internet use is required for this course.

AS/SC/KINE 4360 3.0 Gender and Sport. This course examines sociohistorical links between gender and social power expressed in sporting contexts, normally considered a male domain. The resistance to such notions by women and girls challenges received values, practices and scholarship. Does any sport have a gender? Three lecture hours per week. One term.

Prerequisite: AS/SC/KINE 1000 4.0 or AS/SC/KINE 2010 3.0.


AS/SC/KINE 4400 6.0 Advanced Fitness/Lifestyle Assessment and Counselling. Students receive supervised, practical experience in designing, administering and interpreting fitness assessments along with the follow-up exercise counselling for athletes and the general public. Two lecture hours and three laboratory hours per week. Two terms.

Prerequisites: AS/SC/KINE 3400 3.0; permission of the course director. Open only to students in the Certificate Program in Fitness Assessment and Exercise Counselling.

Prerequisite or corequisite: AS/SC/KINE 4010 3.0.

SC/KINE 4410 3.0 Cellular and Molecular Physiology for the Health Sciences. An overview of mammalian gene expression, membrane biochemistry, molecular neuroscience and techniques in molecular biology, with an emphasis on health, disease,
exercise and adaptation. Three lecture hours per week. One term.  
Prerequisite: AS/SC/KINE 3012 3.0.  
Degree credit exclusion: AS/SC/KINE 4448 3.0.

AS/KINE 4420 3.0 Relaxation: Theory and Practice. This course focuses on an understanding of the physiological and psychological basis of relaxation as a self-management procedure and in the utilization of relaxation strategies in sport, health and physical activity. Three lecture hours per week. One term.  
Prerequisites: AS/SC/KINE 2031 3.0; AS/SC/KINE 3011 3.0; AS/SC/KINE 3012 3.0; or permission of the course director.

AS/SC/KINE 4421 3.0 Relaxation II: Research and Application. This course reviews the research and application of self-regulation strategies (relaxation, biofeedback, imagery, cognitive restructuring and attention control) for performance and health enhancement. Three lecture hours per week. One term.  
Prerequisite: AS/KINE 4420 3.0.

AS/KINE 4430 3.0 Business Skills for Sport and Fitness Professionals. This course includes theory and detailed practical instruction about key management/organizational processes and their successful application to sport and fitness-related business initiatives. Three lecture hours per week. One term.  
Prerequisite: Students must be in the Sport Administration Certificate Program or the Fitness Assessment and Exercise Counselling Certificate Program.

Degree credit exclusions: AS/KINE 3250 3.0, AS/PHED 4430 3.0.

AS/SC/KINE 4440 3.0 Advanced Exercise Physiology I: Muscle. Advanced topics in exercise physiology and biochemistry, including energy metabolism, fatigue, skeletal muscle physiology, adaptations to exercise and training. Applications of exercise to disease states, animal laboratories and discussions of original research articles in exercise physiology. Three class hours (lectures/labouratories/tutorials) per week. One term.  
Prerequisite: AS/SC/KINE 4010 3.0.

AS/SC/KINE 4445 3.0 Physiological Basis of Fatigue. An in-depth examination of the physiological processes that limit muscular exercise. Topics include cellular and metabolic failure in sustained muscular contractions, central nervous system limitations, substrate depletion and product accumulation, body fluid shifts and adaptations that forestall fatigue. Three lecture hours per week. One term.  
Prerequisites: AS/SC/KINE 3011 3.0; AS/SC/KINE 3012 3.0; AS/SC/KINE 4010 3.0.

AS/SC/KINE 4448 3.0 Advanced Human Physiology: Endocrinology. An overview of human endocrinology at the physiological, biochemical and molecular levels, with an emphasis on health, disease, exercise and adaptation. Three hours per week. One term.  
Prerequisite: AS/SC KINE 4010 3.0.  
Degree credit exclusions: SCKINE 4140 3.0, SC/BIOL 4320 3.0.

AS/SC/KINE 4450 3.0 Advanced Exercise Physiology II: Cardiovascular. An overview of the cardiovascular physiology of exercise at both the central (heart) and peripheral (blood vessels, capillaries) levels, with an emphasis on health, disease, exercise and adaptation. Physiology adaptations at the molecular level are emphasized. Three lecture hours per week. One term.  
Prerequisite: AS/SC/KINE 4010 3.0.

AS/SC/KINE 4451 3.0 Advanced Biomechanical Analysis of Human Movement (Part I - Kinematics). An examination of human motion, including the fundamentals of motion description, mechanics, and investigative techniques in biomechanics with an emphasis on the kinematics of movement. Special topics and problems relevant to students’ interests are covered in seminars and small group laboratory sessions. Two lecture hours per week, plus laboratory hours. One term.  
Prerequisite: AS/SC/KINE 3030 3.0.

AS/SC/KINE 4452 3.0 Advanced Biomechanical Analysis of Human Movement (Part II - Kinetics). An examination of human motion, including the fundamentals of motion description, mechanics, and investigative techniques in biomechanics with an emphasis on the kinetics of movement. Special topics and problems relevant to students’ interests are covered in seminars and small group laboratory sessions. Two lecture hours per week, plus laboratory hours. One term.  
Prerequisite: AS/SC/KINE 4451 3.0.

AS/SC/KINE 4460 3.0 Occupational Biomechanics. Use of biomechanics in the occupational setting is introduced. Topics include workplace assessment techniques, injury mechanisms, tissue mechanics, and the (re)design of tools and workplace. Specific disorders and issues involving the upper extremity and lower back are addressed. Three lecture hours per week. One term.  
Prerequisite: AS/SC/KINE 3030 3.0.  
Degree credit exclusion: AS/SC/KINE 4050A 3.0.

AS/SC/KINE 4470 3.0 Muscle and Joint Biomechanics. Quantitative biomechanical principles are used to evaluate human movement at the joint and muscle level. Factors affecting total joint moment of force are studied including muscle mechanics, muscle architecture, moment arm and electrophysiology. Two lecture hours and two laboratory hours per week. One term.  
Prerequisite: AS/SC/KINE 3030 3.0.


AS/SC/KINE 4475 3.0 Clinical Biomechanics. Quantitative biomechanical techniques are used to evaluate musculoskeletal injuries and pathological movement. Standard biomechanics techniques and modeling methods are combined with an understanding of tissue mechanics to quantitatively evaluate injury mechanisms and rehabilitation of tissues (bone, ligament, tendon, muscle). Three lecture hours per week. One term.  
Prerequisite: AS/SC/KINE 3030 3.0.  
Recommended: AS/SC/KINE 3470 3.0.

AS/SC/KINE 4480 3.0 Sociology of Sport II. This course focuses on social problems in sport. Topics include inequality, sport as work, sport as a spectacle, and sport and the state. Three lecture hours per week. One term.  
Prerequisite: AS/SC/KINE 3620 3.0 or permission of the course director.  
Degree credit exclusion: AS/SC/KINE 3620 3.0.

AS/SC/KINE 4490 3.0 Philosophy and Issues in Physical Education and Sport. Examination of the philosophical foundations of physical education; their manifestation and other influences on development of physical education programs; identification and critical analysis of current issues in physical education and sport. Three lecture hours per week. One term.  
Prerequisites: 90 academic credits completed; permission of the course director.

AS/SC/KINE 4500 3.0 Neural Control of Movement. This course reviews fundamental concepts and current issues in motor control, with an emphasis on the brain mechanisms underlying motor behaviour. Topics include walking, looking, reaching, posture, and complex skill coordination. Three lecture hours per week. One term.  
Prerequisite: AS/SC/KINE 3020 3.0 or permission of the course director.

AS/SC/KINE 4505 3.0 Neurophysiology of Movement in Health and Disease. This course provides an overview of current neurophysiological concepts in motor control, with an emphasis on the neurophysiological principles underlying human movement disorders. Three hours per week, no labs. One term.  
Prerequisite: AS/SC/KINE 3011 3.0 or AS/SC/KINE 3020 3.0.


AS/SC/KINE 4510 3.0 Cellular and Molecular Basis of Muscle Physiology. Topics include muscle development, muscle-specific gene expression, molecular basis of muscle contraction, biochemical plasticity of muscle, sarcocemmal and nuclear signal transduction in muscle. Three lecture hours per week. One term.  
Cross-listed to: SC/BIOL 4510 3.0.  
Prerequisite(s): AS/SC/KINE 3011 3.0, or both SC/BIOL 2020 4.0 and SC/BIOL 2021 4.0.  
Degree credit exclusion: SC/BIOL 4510 3.0.
AS/SC/KINE 4520 3.0 Advanced Seminar in Sport Psychology. The course provides an in-depth examination of selected topics in sport psychology: motivation, imagery, self-regulation and attention. The emphasis is on the application of mental training skills in sport settings. Three lecture hours per week. One term.

Prerequisite: AS/SC/KINE 2000 3.0 or AS/SC/KINE 3090 3.0, or permission of the course director.

AS/KINE 4530 3.0 Sport Administration Fieldwork Placement. Students spend a minimum of 40 hours working in an administrative setting related directly to the area of sport administration. The practical experience is supported by lectures, seminars, reports and readings. Three hours per week. One term.

Prerequisites: AS/KINE 3490 3.0; students must be in the Sport Administration Certificate Program.

AS/SC/KINE 4545 6.0 Sport Administration Applied Research Perspectives. This course provides students with an overview of selected current issues facing organizations in the sport industry as well as a grounding in social research methods. Students conduct applied research addressing problems faced by sport organizations. Three lecture hours per week. Two terms.

Prerequisites: AS/SC/KINE 2050 3.0 or equivalent; AS/SC/KINE 2380 3.0; AS/SC/KINE 3240 3.0; AS/SC/KINE 3490 3.0; AS/SC/KINE 3510 3.0.

AS/SC/KINE 4550 6.0 Coaching Field Experience. The student works with a mentor coach for a complete sport season and submits a comprehensive log book. The field experience includes physiological testing, videotape analysis and three other coaching tasks. Three hours per week. Two terms.

Prerequisites or corequisites: AS/SC/KINE 4610 3.0. Open only to students in the Coaching Field Experience Program.

Note: Students may take this course concurrently with AS/SC/KINE 4610 3.0.

AS/KINE 4560 3.0 Physical Activity and Children: Pedagogy. This course examines teaching methods available for people working in a physical activity setting with children. Emphasis is placed on the core program components of dance, games and gymnastics. Curriculum and lesson planning for school based physical education is included. Two lecture hours and two laboratory hours per week. One term.

Prerequisite: AS/SC/KINE 3340 3.0.

Degree credit exclusion: AS/SC/KINE 3520 6.0.


Prerequisites: AS/SC/KINE 3450 3.0; AS/SC/KINE 3600 3.0; current CPR and first aid; clinical and field experience. Open only to students in the Athletic Therapy Certificate Stream.

Prerequisite or corequisite: AS/SC/KINE 3460 3.0.

AS/SC/KINE 4580 3.0 Treatment and Rehabilitation of Sports Injuries. An advanced course in the treatment and rehabilitation of common athletic injuries including generalized body reactions to injury, specific tissue responses to trauma, the immediate treatment of injuries, the long-term rehabilitation of injuries, and the use of modalities. Two lecture hours and two laboratory hours per week. One term.

Prerequisites: AS/SC/KINE 4570 3.0; current CPR and first aid; clinical and field experience. Open only to students in the Athletic Therapy Certificate Stream.

AS/SC/KINE 4590 6.0 Athletic Therapy Seminar. An advanced-level course in athletic therapy applying theoretical background to sport-related injuries and rehabilitation. Two seminar hours per week plus extra out-of-class hours. Two terms.

Prerequisites: AS/SC/KINE 3450 3.0; AS/SC/KINE 3460 3.0; AS/SC/KINE 3600 3.0; AS/SC/KINE 4570 3.0; AS/SC/KINE 4580 3.0. Open only to students in the Athletic Therapy Certificate Stream or with permission of the course director.

Prerequisite or corequisite: AS/SC/KINE 3585 3.0.

AS/SC/KINE 4595 3.0 Ethics for Kinesiology and Health. This course provides grounding in ethical theories and approaches, and applies ethical paradigms to issues in kinesiology and health science. Two lecture hours and one seminar hour per week. One term.

Prerequisite: AS/SC/KINE 1000 4.0.

AS/SC/KINE 4600 3.0 Coaching: Science and Methodology. The course focuses on coaching methodology and scientific principles applied to coaching. Methodology includes planning, conducting and evaluating training sessions, and time, stress and team management. Systems of training, scientific conditioning methods and other influences on conditioning and performance are included. Three lecture hours per week. One term.

Prerequisites: AS/SC/KINE 2475 3.0; AS/SC/KINE 3610 3.0.

Note: Levels I, II and III Theory of the National Coaching Certification Program are granted with the successful completion of AS/SC/KINE 3610 3.0 and AS/SC/KINE 4600 3.0.

AS/SC/KINE 4610 3.0 Advanced Coaching Seminar. The course consists of selected topics in coaching. A review of the literature with an application to coaching is presented from the areas of psychology, physiology, sociology, sports management etc. Guest lecturers and symposiums are featured. Three hours per week. One term.

Prerequisite: AS/SC/KINE 2475 3.0.

AS/SC/KINE 4620 3.0 Counselling Skills for Kinesiology and Health Science. This course provides a theoretical basis of behaviour, attitude change and motivation as it pertains to fields related to kinesiology and health science. Practice of the counselling skills with supervised auditory feedback is provided. Two lecture hours and one tutorial hour per week. One term.

Prerequisite: AS/SC/PSYC 1010 6.0.

Degree credit exclusion: AS/SC/KINE 4550 6.0.

AS/SC/KINE 4630 3.0 Olympic Movement and Its Influence On Canadian Sport. This course analyzes the historical origin and evolution of the world's largest sport spectacle. The Olympics have blended political games and secularized ideals with athletics. Students assess the consequences of its domination over Canadian high-performance sport. Three lecture hours per week. One term.

Prerequisites: AS/SC/KINE 3430 3.0; AS/SC/KINE 3440 3.0.

AS/SC/KINE 4640 3.0 Lifestyle and Current Health Issues. This course explores the relationship between health knowledge, health attitudes and health actions of individuals in modern society. Decision-making processes are investigated relative to levels of growth and development and the quality of interactions in a variety of environments. Three lecture hours per week. One term.

Prerequisite: AS/SC/KINE 2020 3.0.

AS/SC/KINE 4660 3.0 Exercise and Addictive Behaviours. This course examines a variety of topics in the area of exercise and health psychology with a particular emphasis on the adaptive and maladaptive aspects of exercise, as well as on issues concerning body image, food intake and eating disorders. Three lecture hours per week. One term.

Prerequisites: AS/SC/PSYC 1010 6.0; AS/SC/KINE 2020 3.0.

AS/SC/KINE 4710 3.0 Psychology of Health and Chronic Disease. This course explores the role of psychological variables in the development, progression and treatment of chronic diseases such as coronary heart disease, cancer and AIDS. Other critically reviewed topics include stress, substance abuse (smoking and alcohol), and injury and violence. Three lecture hours per week. One term.

Prerequisite: AS/SC/PSYC 1010 6.0.


AS/SC/KINE 4800 3.0 Human Cadaver Dissection. Human cadaver dissection is a laboratory course in which students dissect an anatomical region on a human cadaver. 20 hours of supervised instruction; 40 hours of self-directed dissection. One term.

Prerequisites: AS/SC/KINE 2031 3.0; AS/SC/KINE 3460 3.0; AS/SC/KINE 3465 3.0.
Kinesiology and Health Science Practicum Program

All students enrolled in Kinesiology and Health Science programs must complete the practicum core, which consists of two practicum credits in each of the following six areas: gymnastics/dance, aquatics, team sports, individual and dual sports, track and field, and emergency care, for a total of 12 practicum credits. Students in the Health and Kinesiology Stream must complete an additional six credits for a total of 18 practicum credits. A detailed description of the course offerings and requirements is available from the School of Kinesiology and Health Science.

Practicum Course List

While practicum courses are required of all kinesiology and health science students in order to graduate, they are not applied towards the academic degree requirements in kinesiology and health science.

In the case of practicum courses, the first digit of the course number indicates the practicum area, not the level of the course. The number which follows the four-digit course number in this Calendar indicates the number of practicum credits. A practicum credit represents a total of 12 contact hours of sports activity or equivalent.

Practicum courses provide professional preparation for kinesiology and health science students and as such may require vigorous physical activity. It is strongly recommended that every student in the practicum program have a medical examination prior to participating. Students with disabilities are considered on a case-by-case basis.

Practicum courses are open to both men and women unless otherwise specified. For practicum course descriptions, please consult the School of Kinesiology and Health Science supplemental calendar.

Dance/Gymnastics Courses

AS/SC/PKIN 1002 2.0 Men's Gymnastics I.
AS/SC/PKIN 1003 2.0 Women's Gymnastics I.
AS/SC/PKIN 1012 2.0 Men's Gymnastics II.
AS/SC/PKIN 1013 2.0 Women's Gymnastics II.

AS/SC/PKIN 1040 2.0 Rhythmic Gymnastics I. (Women)
AS/SC/PKIN 1050 2.0 Ballroom Dance I.
AS/SC/PKIN 1057 2.0 Ballroom Dance II.
AS/SC/PKIN 1080 2.0 Folk and Social Dance.
AS/SC/PKIN 1085 2.0 Country Dance.
AS/SC/PKIN 1090 2.0 Jazz Dance I.
AS/SC/PKIN 1110 2.0 Modern Dance I.
AS/SC/PKIN 1900 2.0/1900 3.0/1900 4.0/1900 6.0 Special Topics: Dance.

Aquatics Courses

AS/SC/PKIN 2000 2.0 Swimming I.
AS/SC/PKIN 2010 2.0 Swimming II.
AS/SC/PKIN 2040 2.0 Lifesaving I.
AS/SC/PKIN 2050 2.0 Lifesaving II: Advanced Lifesaving.
AS/SC/PKIN 2060 4.0 Lifeguarding.
AS/SC/PKIN 2070 2.0 Skin and Scuba Diving.
AS/SC/PKIN 2080 2.0 Synchronized Swimming I. (Women)
AS/SC/PKIN 2090 4.0 Aquatic Instructor.
AS/SC/PKIN 2120 2.0 Water Polo I.
AS/SC/PKIN 2300 2.0/2300 3.0/2300 4.0/2300 6.0 Special Topics: Aquatics.

Team Sports Courses

AS/SC/PKIN 2900 2.0 Basketball I.
AS/SC/PKIN 3010 2.0 Basketball II.
AS/SC/PKIN 3040 2.0 Field Hockey I.
AS/SC/PKIN 3050 2.0 Field Hockey II.
AS/SC/PKIN 3080 2.0 Foot Ball I.
AS/SC/PKIN 3090 2.0 Foot Ball II.
AS/SC/PKIN 3120 2.0 Hockey I.
AS/SC/PKIN 3130 2.0 Hockey II.
AS/SC/PKIN 3240 2.0 Rugby I.
AS/SC/PKIN 3280 2.0 Soccer I.
AS/SC/PKIN 3290 2.0 Soccer II: Coaching.
AS/SC/PKIN 3320 2.0 Volleyball I.
AS/SC/PKIN 3330 2.0 Volleyball II.
AS/SC/PKIN 3360 2.0 Beach Volleyball I.
AS/SC/PKIN 3390 2.0 Softball.
AS/SC/PKIN 3500 2.0 Team Handball I.
AS/SC/PKIN 3900 2.0/3900 3.0/3900 4.0/3900 6.0 Special Topics: Team Sports.

Individual and Dual Sports Courses

AS/SC/PKIN 4000 2.0 Tai Chi I.
AS/SC/PKIN 4010 2.0 Tai Chi II.
AS/SC/PKIN 4020 2.0 Yoga I.
AS/SC/PKIN 4030 2.0 Karate-Do I.
AS/SC/PKIN 4040 2.0 Akido Yoshinkan.
AS/SC/PKIN 4050 2.0 Golf I.
AS/SC/PKIN 4110 2.0 Golf II.
AS/SC/PKIN 4150 2.0 Court Games.
AS/SC/PKIN 4210 2.0 Squash II.
AS/SC/PKIN 4350 2.0 Tennis I.
AS/SC/PKIN 4360 2.0 Tennis II.
AS/SC/PKIN 4370 2.0 Badminton I.
AS/SC/PKIN 4380 2.0 Badminton II.
AS/SC/PKIN 4550 2.0 Alpine Skiing I (Downhill).
AS/SC/PKIN 4510 2.0 Alpine Skiing II (Downhill).
AS/SC/PKIN 4520 2.0 Cross-Country Skiing I.
AS/SC/PKIN 4530 2.0 Cross-Country Skiing II: Skating Technique.
AS/SC/PKIN 4550 2.0 Mountain Biking.
AS/SC/PKIN 4600 2.0 Strength Training.

Additional Courses

AS/SC/PKIN 5010 3.0 Exercise Therapy for Chronic Diseases. An overview of the use of exercise and physical activity in the evaluation and treatment of a variety of chronic diseases and disabilities. Three lecture hours per week. One term.

Prerequisite: AS/SC/PKIN 4010 3.0.

Degree credit exclusions: AS/SC/PKIN 4050E 3.0 (Fall/Winter 2000-2001).

Note: This course is held off-campus. Consult the Kinesiology and Health Science Program for further details.

Degree credit exclusions: AS/SC/KINE 4050B 3.0.
Courses of Instruction

AS/PSYC 3570 3.0 Organizational Psychology.

AS/POLS 4091 6.0 Contemporary Marxist Theory.

AS/POLS 4770 3.0 Working Class Politics in Capitalist Democracies (formerly AS/POLS 4710 3.0).

AS/PSYC 3570 3.0 Organizational Psychology.

Languages, Literatures and Linguistics – Arts

Department Office:
S561 Ross, 416-736-5016
Web Address:
http://momiji.arts-dill.yorku.ca
Chair of the Department:
N. Elson

Professors:
M.B. Brown, S. Ehrlich, S. Embleton, G. Guy, R. King, D. Mendelsohn, R.W.F. Pope

Associate Professors:

Assistant Professors:
P. Giordan, R. Scott, V.G. Stephens, X. Xu

Associate Lecturers:
G. Colussi-Arthur, N. Elson, M. Frescura, I. Klein, N. Ota, L. Pietropaolo

Sessional Assistant Professor:
M. Noonan, J. Walker

Faculty Members Emeriti:

The Department of Languages, Literatures and Linguistics offers courses leading to Honours BA and BA degree programs in German Studies, Italian, Linguistics, Russian, and Spanish. The department also offers Certificates of Language Proficiency in Chinese, German, Italian, Japanese, Modern Greek, Portuguese, Russian, and Spanish, as well as an Advanced Certificate in Hebrew and Judaic Studies and a Certificate in Teaching English to Speakers of Other Languages (TESOL).

For course listings in linguistics, please see the Linguistics section of this Calendar.

For specific program or certificate requirements please consult the Faculty of Arts Programs of Study section of this Calendar.

Courses in Language, Literature and Culture

General Regulations

1. Entry to Language Courses

Any student may enrol in a language course at any level, subject to the conditions enumerated below.

a) Admission to a student’s first course in a language at York is by placement questionnaire and/or interview, or departmental authorization slip.

b) In most cases, students who have completed a 1000-level language course with a grade of at least C are automatically admissible to a course at the next level in the same language, but may be pre-tested for purposes of course or section placement.

c) Registration in any language course may be limited at the discretion of the department.

d) Students intending to major or minor in German Studies, Italian, Russian, or Spanish are encouraged to begin study of the relevant language in their first year.

2. Credit for Language Courses

A language course may be taken for credit in any year of any undergraduate program. Credit is given for a course if a grade of D or better is achieved. However, to advance from one level to another level, a student must achieve at least a grade of C.

3. Entry to departmental literature and culture courses, and to courses in classical Greek or Latin literature

a) In literature and culture courses of the department, instruction is normally given in the relevant language, and entry to courses and programs depends upon the student’s ability to function in that language. The department may require a student to demonstrate language competence before granting admission to a course. For details, please consult the department’s supplemental calendar.

For regulations concerning entry to courses in classical Greek or Latin literature, please consult a member of the Program in Classical Studies.

Not all of the courses listed below will necessarily be offered in any given year. For details of courses to be offered, please consult the Department of Languages, Literatures and Linguistics supplemental calendar.

Subject to degree credit exclusion and in-Faculty regulations, and with the approval of the program coordinator, students may take courses at the Faculties of Atkinson or Glendon for major or minor credit in one of the programs offered by the Department of Languages, Literatures and Linguistics.

American Sign Language

AS/ASL 1000 6.0 American Sign Language, Level I: Introduction to Sign Language Studies. American Sign Language (ASL) is a language with its own linguistic attributes and roots in the deaf community. Activities focus on using hands, face and other body parts to
represent lexical and grammatical aspects of ASL, and on comprehension skills in elementary ASL-based conversation.

Degree credit exclusion: AS/ASL 1800A 6.0.

Note: This course is offered in cooperation with the Deaf Education Program in the Faculty of Education.

AS/ASL 2000 6.0 American Sign Language, Level II. Activities include lessons on ASL II vocabulary, advanced sentence structures, manual and non-manual grammar, conversation strategies, development of viewing and signing skills and familiarization with genres of ASL literature. By year-end, students will be able to discuss basic information in ASL.

Prerequisite: AS/ASL 1000 6.0 or equivalent, or permission of the course director.

Degree credit exclusion: AS/ASL 2800A 6.0.

Note: This course is offered in cooperation with the Deaf Education Program in the Faculty of Education.

AS/ASL 3000 6.0 American Sign Language, Level III. This course is based on the Signing Naturally Level III curriculum of the Vista American Sign Language Series. Students apply advanced grammatical features and rehearse new vocabulary through classroom exercises and homework assignments.

Prerequisites: AS/ASL 2000 (formerly 2800 6.0), a rating of 2.0 or better on the ASL Proficiency Interview (ASLPI); or permission of the instructor.

Note: This course is offered in cooperation with the Deaf Education program in the Faculty of Education.

Chinese

AS/CH 1000 6.0 Elementary Modern Standard Chinese. Presents three aspects of Modern Standard Chinese — pronunciation, grammar, writing system — using lectures, drills, audio tapes and interactive computer programs. Pinyin (Chinese romanization) is used in teaching. Students learn approximately 500 characters by the end of the course.

Language of instruction: Chinese/English.

Prerequisite: Permission of the department.

AS/CH 2000 6.0 Intermediate Modern Standard Chinese. Continues the work of AS/CH 1000 6.0 so that students can hold discussions on contemporary China and can read and write approximately 1100 characters.

Language of instruction: Chinese.

Prerequisite: AS/CH 1000 6.0 or permission of the department.

AS/CH 2010 6.0 Chinese for Beginners With Background. Students learn standard (Mandarin) pronunciation and the pinyin romanization system. They study basic conversational Chinese and learn to read and write enough Chinese characters to equip them for the third-year level.

Language of instruction: Chinese.

Prerequisite: Permission of the instructor. Not open to those with no Chinese-speaking experience or Chinese students with formal education in Chinese.

AS/CH 2700 6.0 Introduction to Chinese Literature. Surveys the many genres of Chinese literature from its origins to the present to show the evolution of the literary tradition and its interplay with history, philosophy and politics. Focus is on major works and how to discover their meaning.

Language of instruction: Chinese/English.

Prerequisite: None.

AS/CH 2730 6.0 Modern Chinese Fiction. A brief survey of popular traditional narrative and an examination of 20th-century stories and novels from the end of the Qing dynasty through the Republican era. This includes the beginning and the end of bourgeois fiction in China as well as the continuation of more popular traditions. Readings, discussions and term work are in English.

Language of instruction: English.

Prerequisite: None.

AS/CH 3000 6.0 Advanced Modern Standard Chinese. Reading, writing, discussion, use of dictionaries and translation practice. The student should, with the aid of dictionaries, be able to read and translate newspaper articles from the People’s Republic, modern fiction and non-specialist articles.

Language of instruction: Chinese.

Prerequisite: AS/CH 2000 6.0 or AS/CH 2010 6.0 or permission of the department.

AS/CH 3010 6.0 Modern Standard Chinese for Speakers of Cantonese or other Dialects. Training in the standard pronunciation, phonetic system and simplified script, and discussions of the debate on language reform and style, as embodied in the classics of modern vernacular literature.

Language of instruction: Chinese.

Prerequisite: Permission of the department; not open to speakers of Mandarin.

AS/CH 3600 6.0 Lu Xun: Representative Works. This course deals with the creative works of Lu Xun, China’s leading 20th-century writer. It focuses on textual analysis of his short stories, prose poems and selected satirical essays. Modern Standard Chinese (Mandarin) is used in class.

Language of instruction: Chinese.

Prerequisites: AS/CH 3010 6.0 or AS/CH 3000 6.0 plus any of the 2000-level literature courses or permission of the department.

AS/CH 3710 6.0 Women Writers in Modern China. A study of the fiction of the major women writers from the literary revolution of the early 1920s to the present; the development of themes, forms and styles seen in the context of modern Chinese literature and against the background of China’s patriarchal tradition.

Language of instruction: English.

Prerequisite: Any 2000-level Chinese literature course or AS/HUMA 2930 6.0/AS/SOSC 2180 6.0.

AS/CH 3790 6.0 Contemporary Chinese Culture Through Literary Texts and Film. Primarily concentrating on representative “new wave” written works and films, this course explores the relationship between ideology and art in postmodern China and stresses new literary/cinematic sensibilities in contemporary Chinese culture.

Language of instruction: English.

Prerequisite: None.

AS/CH 4010 6.0 Translation: English-Chinese/Chinese-English. The course emphasizes the development of written translation skills by considering English and Chinese texts in a range of topics and styles. Training in translation strategies enables the production of a text equivalent to the original meaning and style.

Language of instruction: Chinese.

Prerequisite: AS/CH 3000 6.0 or AS/CH 3010 6.0 or permission of the department.

English as a Second Language

AS/ESL 1000 9.0 Canadian Language and Culture. This course develops the linguistic/academic skills of students from English as a second language backgrounds, using themes, such as language and communication, culture and identity, the immigrant/refugee experience, multiculturalism, Canada’s aboriginal peoples and Quebec. Course activities focus on developing English proficiency while exploring these themes. (This course is affiliated with Stong College.)

Cross-listed to: AS/HUMA 1220 9.0.

Degree credit exclusions: AS/ESL 1000 6.0, AS/HUMA 1220 6.0.

Note: This course is normally open only to students in their first academic session.

AS/ESL 2000 6.0 English in Use. This course provides opportunities for students to develop their English language skills while learning more about the varieties of written and spoken English. Students learn to analyze both spoken and written texts as connected discourse and become familiar with some of the ways in which literary and non-literary texts can be examined.

Prerequisite: AS/ESL 1000 9.0 or permission of the department.

German Studies

Students interested in pursuing a degree in German Studies may choose from one of two streams: German language, literature and culture, or German culture and society. For specific program requirements please consult the Faculty of Arts Programs of Study section of this Calendar.

AS/GER 1000 6.0 Elementary German. This course acquires basic functional competence in oral and written German. This course also introduces students to aspects of
Courses of Instruction

AS/GER 1020 6.0 Elementary German for Reading Knowledge. A study of German grammar with the aim of developing a reading knowledge of the language. Translation practice from German into English of texts drawn from a variety of disciplines. No previous knowledge of German is assumed.

Language of instruction: German/English.

AS/GER 2000 6.0 Intermediate German. This course continues the communicative approach used in AS/GER 1000 6.0 and helps students acquire a level of competence in oral and written German which enables them to function comfortably in a German-speaking environment. The cultural component of the course is designed to broaden students' understanding of contemporary German society.

Language of instruction: German.
Prerequisite: AS/GER 1000 6.0 or OAC German (or equivalent, with appropriate score on departmental placement test).

Degree credit exclusion: AS/GER 2000 6.0.

Note: This course does not qualify as a prerequisite for AS/GER 1050 6.0.

AS/GER 2200 6.0 Modern German Writers. An introduction to German literary texts in their cultural context. The course provides the basis for further work in German Literature and the broader field of German Studies.

Language of instruction: German/English.
Prerequisite: AS/GER 1000 6.0 with a minimum grade of B and concurrent registration in AS/GER 2000 6.0; or AS/GER 2000 6.0, or permission of the department.

Degree credit exclusion: AS/GER 2200 6.0.

Note: Students have the option to write essays, assignments and tests in either English or German; however, students are required to write several assignments as well as respond to several test questions in German.

AS/GER 2201 6.0 Modern German Writers (in translation). An introduction to German literary texts in their cultural context. The course provides the basis for further work in German Literature and the broader field of German Studies.

Language of instruction: English.
Prerequisite: No knowledge of German is necessary.

Degree credit exclusion: AS/GER 2200 6.0.

Note: AS/GER 2201 6.0 will count for major or minor credit towards the German Culture and Society stream in the German Studies program, but will not count for major or minor credit towards the German Language, Literature and Culture stream in the German Studies program.

AS/GER 2790 6.0 Germany Through the Ages: Culture and Society. This course introduces students to the culture of Germany and the German-speaking countries from a North American perspective. The course takes an intercultural and interdisciplinary approach to key aspects of the literary, artistic, political, and social history of these countries. This course is affiliated with Calumet College.

Language of instruction: English.

Cross-listed to: AS/HUMA 2190 9.0.

Degree credit exclusion: AS/HUMA 2190 6.0.

AS/GER 3000 6.0 Advanced German, Level I. This course aims to develop further the student’s ability to write and speak correct and idiomatic German. Through reading and discussion, in German, of materials on current affairs, the student is also given an understanding of the cultural context of modern German.

Language of instruction: German.
Prerequisite: AS/GER 2000 6.0 or permission of the department.

Degree credit exclusion: AS/GER 2040 6.0.

AS/GER 3060 3.0 German and Germans in the Canadian Mosaic. This course examines the history and place of German and Germans in the Canadian mosaic. For a more detailed course description, please consult the departmental supplemental calendar.

Language of instruction: English.


AS/GER 3070 3.0 Topics in Contemporary German Culture. This course explores topics in contemporary German culture. Topics vary from year to year. For a more detailed course description, please consult the departmental supplemental calendar.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0, or permission of the department.

Degree credit exclusions: AS/GER 3800C 3.0, AS/GER 4070 3.0, AS/GER 4800C 3.0.

AS/GER 3100 3.0 German Regional Linguistic Varieties. Different German regional linguistic varieties or dialects are examined and their similarities to and differences from modern standard German are analyzed. The course also gives an overview of the historical development of the German dialects.

Language of instruction: German.
Prerequisite/corequisite: AS/GER 3000 6.0 or equivalent, or permission of the department.

Degree credit exclusion: AS/GER 4100 3.0.

AS/GER 3110 3.0 Syntactic Structure of Modern German. Analysis of the linguistic structure of modern German, especially in contrast to the structure of English. Models used for analysis will be the Transformational and Case Grammar models.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0 or equivalent, or permission of the department.

Degree credit exclusion: AS/GER 4110 3.0.

AS/GER 3130 3.0 Words and Meaning in German and English. This course deals with the elements of meaning: how they are combined into word-level structures in German and English and how words are structured as entries in bilingual dictionaries.

Language of instruction: German.
Prerequisite/corequisite: AS/GER 3000 6.0 or equivalent, or permission of the department.

AS/GER 3310 3.0 A Survey of German Literature From 1400-1700. The literature of German Humanism, from the Reformation period and from the time of the Thirty Years' War. Representative authors, such as Luther, Sachs, Gryphius, Lohenstein and Grimmelshausen, will be studied.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0 or permission of the department.

Degree credit exclusion: AS/GER 4310 3.0.

AS/GER 3580 6.0 German Prose and Poetry in the 19th and 20th Centuries. Studies in the development of German prose and poetry from Hoffmann to Günter Grass, including the works of such authors as Kleist, Heine, Thomas Mann, Hesse, Kafka and Rilke.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0 or permission of the department.

AS/GER 3590 3.0 The German Drama in the Late 18th and the 19th Century. A study of selected major dramas from Lessing to Hauptmann, with attention to the development of the drama as a genre, and to the relation of the works to their historical background.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0 or the permission of the department.

AS/GER 3600 3.0 Berlin in German Literature and Culture. This course highlights the following periods in the story of modern Berlin: “Golden Twenties”; 1945 and the end of Hitler’s Reich; 1949-1989, when as a divided city, Berlin was caught in the tug-of-war between East and West; and the present “post-wall” period in which it is the capital of a united Germany.

Language of instruction: English.
Cross-listed to: AS/HUMA 3600 3.0.
Prerequisite: AS/GER 2200 6.0 or permission of the department.

Degree credit exclusion: AS/GER 4600 3.0.

AS/GER 3610 3.0 The German Drama in the 20th Century. A study of major dramas from Wedekind to Brecht, with attention to the development of the drama as a genre, and to the relation of the works to their historical background.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0 or permission of the department.

Degree credit exclusion: AS/GER 4610 3.0.
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**AS/GER 3670 3.0 Topics in Contemporary German Literature.** Selections from various genres; the authors and works studied will change from year to year according to the topic selected. Please consult the departmental supplemental calendar for more details.

Language of instruction: German/English.
Prerequisite: AS/GER 2200 6.0, or equivalent.
Degree credit exclusion: AS/GER 4670 3.0.

**AS/GER 3790 6.0 Germany in Film: Literary and Historical Perspectives (in translation).** This course examines major films of contemporary German cinema, including screen adaptations of works of German literature and films that address central concerns of recent German history.

Language of instruction: English.
Cross-listed to: AS/HUMA 3983 6.0.
Degree credit exclusion: AS/HUMA 3990K 6.0.

**AS/GER 4001 3.0 Advanced German, Level IIA.** Review of aspects of grammar and idiomatic expressions; introduction to the principles and practice of essay writing; oral reports on assigned readings on current affairs, with an emphasis of vocabulary building.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0 or equivalent, or permission of the department.
Degree credit exclusions: AS/GER 3040 6.0, AS/GER 3043 3.0.

**AS/GER 4002 3.0 Advanced German, Level IIB.** Further review of aspects of grammar and idiomatic expressions; translation; class discussions on topics of general interest and current affairs, with an emphasis on vocabulary building.

Language of instruction: German.
Prerequisite: AS/GER 3042 3.0 or AS/GER 4001 3.0 or permission of the department.
Degree credit exclusions: AS/GER 3040 6.0, AS/GER 3045 3.0.

**AS/GER 4060 3.0 German and Germans in the Canadian Mosaic.** This course examines the history and place of German and Germans in the Canadian mosaic. For a more detailed course description, please consult the departmental supplemental calendar.

Language of instruction: English.

**AS/GER 4070 3.0 Topics in Contemporary German Culture.** This course explores topics in contemporary German culture. Topics vary from year to year. For a more detailed course description, please consult the departmental supplemental calendar.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0, or permission of the department.
Degree credit exclusions: AS/GER 3070 3.0, AS/GER 3800C 3.0, AS/GER 4800C 3.0.

**AS/GER 4100 3.0 German Regional Linguistic Varieties.** Different German regional linguistic varieties or dialects are examined and their similarities to and differences from modern standard German are analyzed. The course also gives an overview of the historical development of the German dialects.

Language of instruction: German.
Prerequisites/corequisites: AS/GER 4001 3.0 and AS/GER 4002 3.0 or equivalent, or permission of the department.
Degree credit exclusion: AS/GER 3100 3.0.

**AS/GER 4110 3.0 Syntactic Structure of Modern German.** Analysis of the syntactic structure of modern German, especially in contrast to the structure of English. Models used for analysis are the Transformational and Case Grammar models.

Language of instruction: German.
Prerequisites/corequisites: AS/GER 4001 3.0 and AS/GER 4002 3.0 or equivalent, or permission of the department.
Degree credit exclusion: AS/GER 3110 3.0.

**AS/GER 4120 3.0 Theory and Practice of Translation: German-English, English-German.** The course concerns itself with the theory and practice of translation, more especially, from German to English and English to German, with texts for translation drawn from general interest fields. Detailed knowledge of syntactic differences between German and English, modern German usage, stylistics, and semantics are applied to practical translation experience.

Language of instruction: German.
Prerequisites/corequisites: AS/GER 4001 3.0 and AS/GER 4002 3.0 or equivalent, or permission of the department.

**AS/GER 4300 3.0 Medieval German Literature.** An introduction to the Middle High German language. Reading of representative works of the period, such as the Nibelungenlied and the poetry of Walther von der Vogelweide.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0, or permission of the department.

**AS/GER 4310 3.0 A Survey of German Literature from 1400 to 1700.** The literature of German Humanism, from the Reformation period and from the time of the Thirty Years’ War. Representative authors, such as Luther, Sachs, Gryphius, Lohenstein and Grimmelshausen, are studied.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0, or permission of the department.

**AS/GER 4320 3.0 Literature of the 18th Century.** A study of major literature of the 18th century, including the Enlightenment and the development of the novel. Representative authors, such as Lessing, Voltaire, and Goethe, are studied.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0, or permission of the department.

**AS/GER 4330 3.0 Literature of the 19th Century.** A study of major literature of the 19th century, including the Romantic movement and the growth of modernism. Representative authors, such as Heine, Nietzsche, and Kafka, are studied.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0, or permission of the department.

**AS/GER 4340 3.0 Literature of the 20th Century.** A study of major literature of the 20th century, including the development of modernism and the emergence of contemporary literature. Representative authors, such as Brecht, Kafka, and Beckett, are studied.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0, or permission of the department.

**AS/GER 4350 3.0 Literature of the 21st Century.** A study of major literature of the 21st century, including the development of digital and online literature. Representative authors, such as Obama and Obama, are studied.

Language of instruction: German.
Prerequisite: AS/GER 3000 6.0, or permission of the department.

**AS/GER 4400 3.0 introduction to the study of Goethe’s Faust.** Close textual analysis of Goethe’s Faust. The relation of the work to its historical background. Introduction to the Faust legend and the varied history of the Faust theme in German literature.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0 or permission of the department.

**AS/GER 4600 3.0 Berlin in German Literature and Culture.** Berlin’s unique position at the crossroads of East and West makes it politically and socially the most interesting city in the German-speaking countries today. This course examines the presentation of Berlin in German literature from imperial capital to divided city.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0 or permission of the department.
Degree credit exclusions: AS/GER 3600 3.0, AS/HUMA 3600 3.0.

**AS/GER 4610 3.0 The German Drama in the 20th Century.** A study of major dramas from Wedekind to Brecht, with attention to the development of the drama as a genre, and to the relation of the works to their historical background.

Language of instruction: German.
Prerequisite: AS/GER 2200 6.0 or permission of the department.
Degree credit exclusion: AS/GER 3610 3.0.

**AS/GER 4620 3.0 Bertolt Brecht: Literature, Culture and Politics (in translation).** Using an interdisciplinary approach, the course examines Brecht’s understanding of the interplay of literature, culture and politics, as shown in his dramatic, poetical and theoretical works.

Language of instruction: English.
Cross-listed to: AS/HUMA 4881 3.0.

**AS/GER 4670 3.0 Topics in Contemporary German Literature.** Selections from various genres; the authors and works studied will change from year to year according to the topic selected. Please consult the departmental supplemental calendar for more details.

Language of instruction: German/English.
Prerequisite: AS/GER 2200 6.0, or equivalent.
Degree credit exclusion: AS/GER 3670 3.0.

**AS/GER 4700 3.0 The Works of Franz Kafka (in Translation).** Through an extensive and intensive study of Kafka’s novels, stories, diaries and letters, as well as a consideration of relevant works by other authors (e.g. Buber, Dostoevsky, Nietzsche), the course seeks to arrive at a balanced and coherent understanding of Kafka’s work.

Language of instruction: English.
Cross-listed to: AS/HUMA 4700 3.0.

Degree credit exclusions: AS/GER 4700 6.0, AS/HUMA 4880D 6.0, AS/HUMA 4880D 3.0.

Note: As the course is taught in translation, no knowledge of the German language is required. However, students taking the course for major or minor credit in the German Language, Literature and Culture stream in the German Studies program will be required to do some work in German. For these students, AS/GER 2200 6.0 is required as a prerequisite.
Courses of Instruction

Additional Courses in German Studies

For course descriptions, please refer to the appropriate departmental/divisional listings in this Calendar or the relevant departmental/divisional supplemental calendar. Not all of the courses listed below will necessarily be offered in any given year.

Subject to degree credit exclusion and in-Faculty regulations, and with the approval of the program coordinator, students may take courses at the Faculties of Atkinson, Fine Arts or Glendon for major or minor credit in German studies.

Note: For purposes of meeting program requirements, all foundations courses will count as six credits towards the major or minor.

Courses in German

AS/GKM 1410 6.0 Intermediate Modern Greek.
This course is designed to improve the student’s oral and written command of the modern Greek language. Short texts relevant to modern Greek culture will be read and analyzed for their content and style.

Language of instruction: Modern Greek.
Degree credit exclusions: AS/GK 2430 6.0, AK/GK 2430 6.0.
Prerequisite: AS/GKM 1000 6.0 or AK/GK 1410 6.0, OAC in modern Greek or, for students with equivalent preparation, permission of the Department of Languages, Literatures and Linguistics.

AS/GKM 3600 6.0 Modern Greek Literature and Culture After Independence.
A general survey of the development of Greek literature and culture from the early 19th century to the present.

Language of instruction: Modern Greek.
Prerequisite: AS/GKM 2000 6.0 or AK/GK 2430 6.0 or permission of the Department of Languages, Literatures and Linguistics.

AS/GKM 3600 6.0 Modern Greek Literature and Culture After Independence.
Fluency in Greek is essential.

Degree credit exclusions: AK/GK 3450 6.0, AS/GK 3450 6.0.

AS/GKM 4600 6.0 Topics in Modern Greek Culture: Literature, Cinema and Theatre.
Reading of selected modern Greek short stories, novels and dramas from the 20th century. This course focuses on the interrelationship between Greek cinema and literature.

Language of instruction: Modern Greek.
Prerequisite: AS/GKM 2000 6.0 or AS/GK 3600 6.0 or permission of the department.

Hebrew

Entry to Hebrew courses: Students will be placed in classes at a level that suits their previous experience.

AS/HEB 1000 6.0 Elementary Modern Hebrew, Level I.
A course in beginning Hebrew, teaching elementary speaking and writing skills, emphasizing oral production and comprehension. This course is not open to anyone who has studied Hebrew before, either formally or informally.

Language of instruction: Hebrew/English.

AS/HEB 1030 3.0 Elementary Biblical Hebrew, Level I.
This course introduces students to the basic vocabulary, grammar and syntax of biblical Hebrew. The class also reads simple narrative prose from the Bible, such as segments from the Joseph story in Genesis.

Language of instruction: English.

AS/HEB 1040 3.0 Elementary Biblical Hebrew, Level II.
This course builds on the skills that the students acquired in HEB 1030 3.0. More advanced issues of grammar and syntax are addressed and students acquire a much larger vocabulary thus allowing more extensive readings of biblical texts.

Language of instruction: English.

Prerequisite: AS/HEB 1000 6.0 or equivalent.

AS/HEB 2010 6.0 Advanced Modern Hebrew.
A course in modern Hebrew, emphasizing the study of contemporary Israeli language as seen in a wide variety of writings (education, business, military and religious literature, as well as newspapers, periodicals and some belles lettres). This course includes practice in writing and composition.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 2010 6.0 or equivalent.

Not normally open to students with two or more years of high school level Hebrew, nor to native speakers.

AS/HEB 3210 6.0 Advanced Hebrew.
A course in modern Hebrew, teaching elementary speaking and writing skills, emphasizing oral production and comprehension. This course is not open to anyone who has studied Hebrew before, either formally or informally.

Language of instruction: Hebrew.

Prerequisite: AS/HEB 2010 6.0 or permission of the department.

This course introduces a specialized genre of Hebrew literature: liturgical texts. The texts analyzed include a variety of ancient, medieval and modern Israeli liturgies.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or permission of the department.

AS/HEB 3230 3.0 The Literature of Celebration and Commemoration.
This course analyzes a variety of texts, classical and modern, in which aspects of major Jewish festivals and memorial days are explored.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or permission of the department.

AS/HEB 3320 3.0 Exodus: Text and Classical Interpretation.
A close textual analysis of the book of Exodus in the original Hebrew and of interpretations of the book written in Hebrew throughout the ages.
Prerequisite: AS/HEB 3000 6.0 or equivalent.


Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or equivalent.

AS/HEB 3360 3.0 Prophetic Literature: Text and Classical Interpretation. A close textual analysis of selected passages from the biblical prophetic books and of interpretations of these passages written in Hebrew throughout the ages.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or equivalent.

AS/HEB 3370 3.0 The Hagio graphical Literature: Text and Classical Interpretation. A close textual analysis of selected passages from the later books of the Bible — Esther, Lamentations and Ecclesiastes — and interpretations of these books written in Hebrew throughout the ages.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or equivalent.

AS/HEB 3500 6.0 The Hebrew Revival: Language and Literature. Readings and discussion of the language and literature of the Hebrew revival of the 18th and 19th centuries. Readings and discussions are in Hebrew.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or equivalent.

AS/HEB 3600 6.0 Themes in Modern Israeli Literature and Society. An examination of some major intellectual questions and literary currents of modern Israel Canaanism; the clash of East and West. Included is a study of the strong; the kibbutz; the Holocaust; the currents of modern Israel Canaanism; the cult of the strong; the kibbutz; the Holocaust; the clash of East and West. Included is a study of literary, historical, philosophical and sociological writings.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or equivalent.

AS/HEB 3710 3.0 Diaspora, Home, Nostalgia: Modern Jewish Women's Literature. What is “Jewish” and “modern” about “Modern Jewish Women's Literature,” and how does it reflect the experiences and perceptions of women? Examining a variety of literary genres, the course compares Israeli women's literature in translation with contemporary writing by other Jewish women.

Language of instruction: English.

AS/HEB 3770 3.0 Inventing Israel: Culture, Crisis and Continuity in Israeli Literature. Modern Hebrew writers faced the challenge of reinventing a language and culture during a century of upheaval and change. Examining fiction, poetry, memoirs and film (in translation), this course addresses such issues as personal and collective identities, and relationships with the past.

Language of instruction: English.

AS/HEB 4000 6.0 Advanced Modern Hebrew, Level II. An intensive course designed to acquaint students with advanced aspects of Hebrew grammar, to improve their reading skills and their ability to express themselves fluently in conversation and in written form.

Language of instruction: Hebrew.
Prerequisite: AS/HEB 3000 6.0 or equivalent. Not open to native speakers who have completed Grade 8 in Israel.

Italian

AS/IT 1000 6.0 Elementary Italian. This course is designed for students with no previous formal training in standard Italian. This course teaches speaking and writing skills through the study of elementary grammar, the practice of vocabulary, intonation and pronunciation.

Language of instruction: Italian/English.

AS/IT 2000 6.0 Intermediate Italian. This course is intended for students with background knowledge of Italian. Emphasis is placed on oral competence and writing skills.

Language of instruction: Italian.
Prerequisite: OAC in Italian (or equivalent) or AS/IT 1000 6.0 (with a minimum grade of C) or equivalent.

AS/IT 2030 6.0 Intermediate Italian Language and Culture in Italy: Examining Bologna, a City at the Crossroads of Italy and Europe. An intensive intermediate Italian language and culture course taught at York University, followed by a stay at the University of Bologna, covering language structures, vocabulary, language functions, and Italian culture and civilization. Excursions complement lectures on cultural topics.

Language of instruction: Italian.
Prerequisite: AS/IT 1000 6.0.
Degree credit exclusion: AS/IT 2000 6.0.

AS/IT 2200 6.0 Introduction to Italian Literature. General historical and thematic survey from the medieval period to the present. The basic tools of literary analysis are emphasized. The languages of instruction are Italian and English.

Language of instruction: Italian/English.
Prerequisite: AS/IT 2000 6.0 or equivalent, or permission of the department.

Corequisite: With permission of the department, students who have successfully completed AS/IT 1000 6.0, or equivalent, may enrol in AS/IT 2200 6.0 only if they are concurrently enrolled in AS/IT 2000 6.0.

Degree credit exclusion: AS/IT 2000 6.0.

AS/IT 2751 9.0 Aspects of Italian Culture. This course aims to present and analyze some of the most interesting themes underlying the development of Italian intellectual life from the 14th century to the 19th century. (This course is affiliated with Founders College.)

Language of instruction: English.
Cross-listed to: AS/HUMA 2751 9.0.


AS/IT 2761 9.0 Italian Cinema, Literature and Society. The course focuses on 12 of the most significant films since the Second World War in the context of the radical changes that have taken place in Italy from the fall of Fascism to the present, and as critical statements on the phenomena connected with the rapid transformation of Italian society: industrialization and the “economic miracle”, urbanization, the crisis of traditional values and postmodern fragmentation. (This course is affiliated with Stong College.)

Language of instruction: English.
Cross-listed to: AS/HUMA 2761 9.0.

AS/IT 2791 9.0 Italian: A Minority Culture and Language in North American Society. This course investigates the effects North American culture and language have on the lives of Italian immigrants and their descendants. (This course is affiliated with Stong College.)

Language of instruction: English.
Cross-listed to: AS/SOSC 2960 9.0.

Degree credit exclusions: AS/SOSC 2990C 6.0, AS/IT 2791 6.0, AS/IT 2790 6.0.

AS/IT 3000 6.0, Advanced Italian, Level I. This course develops the students' command of Italian through the further study of difficult areas of morphology and syntax. Readings from contemporary sources expose students to Italian cultural trends and provide a basis for discussions and short essays.

Language of instruction: Italian.
Prerequisite: AS/IT 2000 6.0 (or equivalent), or permission of the department.

AS/IT 3030 6.0 Advanced Italian Language and Culture in Italy: Examining Bologna, a City at the Crossroads of Italy and Europe. An intensive advanced Italian language and culture course taught at York University, followed by a stay at the University of Bologna, covering language structures, vocabulary, language functions, and Italian culture and civilization. Excursions complement lectures on cultural topics.

Language of instruction: Italian.
Prerequisite: AS/IT 2000 6.0.
Degree credit exclusion: AS/IT 3000 6.0.

AS/IT 3050 6.0 A Sociocultural Approach to Italian in the Business Environment. The course provides a foundation in social and cultural concepts relevant to the business world in Italy. Reading of articles and essays on contemporary Italy, as well as short stories. Students gain communicative and grammatical skills – appropriate for an Italian-speaking commercial environment.

Language of instruction: Italian.
Prerequisite: AS/IT 2000 6.0 or permission of the department.

Degree credit exclusion: AS/IT 2800A 6.0 (Fall/Winter 1999-2000 to Fall/Winter 2001-2002).
Note: This course requires Internet access.

AS/IT 3130 3.0 Linguistic Structures in Italian and English. The aim of this course is to describe and analyze those aspects of linguistic structure of Italian which differ from English. This is not a translation course: students analyze differences between structures of the two languages.

Language of instruction: Italian.
Prerequisite: AS/IT 3000 6.0 or equivalent, or permission of the department.

AS/IT 3150 3.0 Italian Regional Linguistic Varieties. This course deals with the complex linguistic situation of Italy. The different languages or dialects are analyzed and classified with respect to their similarities to and differences from the standard language.

Language of instruction: Italian.
Prerequisite: AS/IT 3000 6.0 or permission of the department.

AS/IT 3200 6.0 Italian Opera from Monteverdi to Puccini. This course studies selected librettos by the most celebrated Italian dramatic poets from the early Baroque to the early 20th century, in the context of the theatrical and aesthetic developments in Europe, and against the background of the cultural and political history of the chief centres of theatrical life.

Language of instruction: Italian/English.
Degree credit exclusion: AS/IT 3201 6.0.
Note: This course will count for major or minor credit in Italian.

AS/IT 3201 6.0 Italian Opera from Monteverdi to Puccini (in translation). This course studies selected librettos by the most celebrated Italian dramatic poets from the early Baroque to the early 20th century, in the context of the theatrical and aesthetic developments in Europe, and against the background of the cultural and political history of the chief centres of theatrical life.

Language of instruction: English.
Degree credit exclusion: AS/IT 3200 6.0.
Note: This course will not count for major or minor credit in Italian.

AS/IT 3221 6.0 Italian Philosophical and Political Thought From Pre-Humanism to Postmodernism. An exploration of Italian philosophical and political thought from the medieval to the contemporary period. Topics include humanism, cosmology, philosophy of history, Marxism, existentialism, phenomenology and postmodernism.

Language of instruction: English.
Note: Not open to any student who successfully completed AS/IT 3201 6.0 prior to 2003-2004.

AS/IT 3350 6.0 The Literature of the Italian Renaissance. Study of main authors and literary trends from the age of Lorenzo de’ Medici to the death of Tasso. This may include the revolutionary political concepts elaborated by Machiavelli and Guicciardini, as well as new approaches to literary theory and practice.

Language of instruction: Italian.
Prerequisite: AS/IT 2200 6.0 or permission of the department.

AS/IT 3360 6.0 Petrarch: Love, Women and Power in the Middle Ages. An exploration of Petrarch’s Canzoniere and its influence on European poetry. This course analyzes the way the life of women at the end of the Middle Ages is represented by Petrarch and by the different traditions of European poetry.

Language of instruction: English/Italian.
Prerequisite: AS/IT 2200 6.0 or permission of the department.
Degree credit exclusions: AS/IT 3360 3.0, AS/IT 3361 6.0.
Note: This course will count for major or minor credit in Italian.

AS/IT 3361 6.0 Petrarch: Love, Women and Power in the Middle Ages (in translation). An exploration of Petrarch’s Canzoniere and its influence on European poetry. This course analyzes the way the life of women at the end of the Middle Ages is represented by Petrarch and by the different traditions of European poetry.

Language of instruction: English/Italian.
Degree credit exclusions: AS/IT 3360 3.0, AS/IT 3361 6.0.
Note: This course will not count for major or minor credit in Italian.

AS/IT 3370 6.0 The Italian Short-Story from Boccaccio to Basile. This course examines the development of the Italian novella from the Middle Ages to the Baroque period. Among the authors studied are: Boccaccio, Bandello and Basile.

Language of instruction: English/Italian.
Prerequisite: AS/IT 2200 6.0 or permission of the department.
Degree credit exclusions: AS/IT 3370 6.0.
Note: This course will count for major or minor credit in Italian.

AS/IT 3371 6.0 The Italian Short-Story from Boccaccio to Basile (in translation). This course examines the development of the Italian novella from the Middle Ages to the Baroque period. Among the authors studied are: Boccaccio, Bandello and Basile.

Language of instruction: English/Italian.
Degree credit exclusions: AS/IT 3371 6.0, AS/IT 3370 3.0.
Note: This course will count for major or minor credit in Italian.

AS/IT 3380 6.0 The Italian Short-Story from Boccaccio to Basile. This course examines the development of the Italian novella from the Middle Ages to the Baroque period. Among the authors studied are: Boccaccio, Bandello and Basile.

Language of instruction: English/Italian.
Degree credit exclusions: AS/IT 3380 3.0, AS/IT 3381 6.0.
Note: This course will not count for major or minor credit in Italian.

AS/IT 3381 6.0 The Italian Short-Story from Boccaccio to Basile (in translation). This course examines the development of the Italian novella from the Middle Ages to the Baroque period. Among the authors studied are: Boccaccio, Bandello and Basile.

Language of instruction: English/Italian.
Degree credit exclusions: AS/IT 3381 3.0.
Note: This course will count for major or minor credit in Italian.

AS/IT 3550 6.0 19th-Century Italian Literature. The main trends in Italian literature of the 19th century from the Pre-Romantics to Verismo. Works by major authors, such as Foscolo, Leopardi, Manzoni, Carducci and Verga, are studied in depth.

Language of instruction: Italian.
Prerequisite: AS/IT 2200 6.0 or permission of the department.

AS/IT 3721 6.0 Mapping the Italian Experience in Canada: The Literary and Cultural Perspective. The study of the Italian experience in Canada as expressed in representative works from various genres: narrative, poetry, theatre and film. The significance of these works is examined in the social and political context.

Language of instruction: English.
Cross-listed to: AS/EN 3721 6.0.

AS/IT 3750 6.0 Modern Italian Culture. This course introduces students to cultural, social and political issues which form the fabric of Italian civilization from unification to the present.

Language of instruction: English.
Note: Students who are taking Italian as a major or minor subject are required to do the readings and assignments for this course in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3750 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

AS/IT 3760 3.0 Italian Medieval and Renaissance Civilization. The main elements of Italian civilization from the age of the republican city-states to the end of the Renaissance: the arts, literature and society; changing concepts of the state; the papacy, the Reformation and Counter-Reformation.

Language of instruction: English.
Degree credit exclusion: AS/IT 3761 3.0.
Note: Students who are taking Italian as a major or minor subject are required to do the readings and assignments in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3760 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

AS/IT 3761 3.0 Italian Medieval and Renaissance Civilization (In Translation). The main elements of Italian civilization from the age of the republican city-states to the end of the Renaissance: the arts, literature and society; changing concepts of the state; the papacy, the Reformation and Counter-Reformation.

Language of instruction: English.
Degree credit exclusion: AS/IT 3760 3.0.
Note: Knowledge of Italian not necessary. Students who are taking Italian as a major or minor subject are required to do the readings and assignments in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3760 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

AS/IT 3770 3.0 Modern and Contemporary Italian Culture. Key issues in contemporary Italian society are studied in their historical development, with the focus on the following: unification and its aftermath; regionalism; Fascism and the Resistance; political parties and intellectuals; the Church; art and literature.

Language of instruction: English.
Degree credit exclusions: AS/IT 3750 6.0, AS/IT 3771 3.0.

Note: Students who are taking Italian as a major or minor subject are required to do the readings and assignments for this course in Italian. Students may take only one of the following courses for credit towards a degree in Italian: AS/IT 3750 6.0 or AS/IT 3790 6.0 or the combination of AS/IT 3760 3.0 and AS/IT 3770 3.0.

AS/IT 3771 3.0 Modern and Contemporary Italian Culture (In Translation). Key issues in contemporary Italian society are studied in their historical development, with the focus on the following: unification and its aftermath; regionalism; Fascism and the Resistance; political parties and intellectuals; the Church; art and literature.

Language of instruction: English.

Degree credit exclusions: AS/IT 3750 6.0, AS/IT 3770 3.0.

AS/IT 4180 3.0 Selected Topics in Italian Linguistics. The purpose of this course is to acquaint students with a selected number of topics in Italian linguistics. Topics may include selected areas of phonetics, phonology, morphology, syntax, English-Italian contrastive grammar and pragmatics.

Language of instruction: Italian.

Prerequisite: AS/IT 3000 6.0 or equivalent, or permission of the department.

Degree credit exclusion: AS/IT 4620 3.0.

AS/IT 4190 3.0 History of the Italian Language. This course traces the history of the Italian language from its Indo-European roots to the present. Topics analyzed include, among others, linguistic aspects of pre-Roman Italy, the transformation of Latin, the 16th-century linguistic controversy (“la questione della lingua”), borrowings from other languages, the standardization of modern Italian.

Language of instruction: Italian.

Prerequisite: AS/IT 3000 6.0 or equivalent, or permission of the department.

Note: Not open to students who have completed AS/IT 3180 3.0.

AS/IT 4210 3.0 Renaissance Theatre. A study of the major works of Italian Renaissance theatre in its development from classical forms; tragedy, comedy and the theoretical discussions related to them; the pastoral drama and Tasso’s Aminta.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

Language of instruction: Italian.

AS/IT 4330 6.0 Dante and Medieval Italian Literature. This course centres on the Divine Comedy, its roots in the European literary and philosophical tradition, and the critical problems of the medieval mind. Key aspects of that tradition through selected readings. Some of Dante’s minor works are also studied.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

AS/IT 4550 3.0 17th-Century Italian Literature. The poetry and prose of the 17th century, focusing on Marino and the “marinisti”; selections from the theoretical texts of the period; the links, where appropriate, with the visual arts.

Language of instruction: English/Italian.

AS/IT 4620 6.0 20th-Century Italian Poetry. Modern Italian poetry from Pascoli to the present. Outstanding works of authors, such as D’Annunzio, Gozzano, Ungaretti, Montale, Quasimodo, Pasolini, Sanguineti, Zanzotto, Rosselli, Niccolai and others.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

Degree credit exclusion: AS/IT 4620 3.0.

AS/IT 4650 6.0 20th-Century Italian Novel. The modern Italian novel from D’Annunzio to the neo-avant-garde. Outstanding works of authors, such as Svevo, Moravia, Vittorini, Pavese, Calvino and Pasolini.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

AS/IT 4660 6.0 20th-Century Italian Theatre. A study of the major works of Italian 20th-century theatre in its development from classical forms; tragedy, comedy and the theoretical discussions related to them; the pastoral drama and Tasso’s Aminta.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

Language of instruction: Italian.

Prerequisite: AS/IT 2200 6.0 or permission of the department.

Japanese

AS/JP 1000 6.0 Elementary Modern Standard Japanese. Basics of spoken Japanese, with strong emphasis on immediate practical usefulness in everyday situations, the two kana syllabaries, approximately 150 Kanji (Sino-Japanese characters) and elementary reading are covered. Simple sentence grammar is focused on. No previous knowledge of the language is assumed.

Language of instruction: Japanese/English.

AS/JP 2000 6.0 Intermediate Modern Standard Japanese. Further study of common grammatical forms and structures; items covered in AS/JP 1000 6.0 are reviewed and expanded. Situation and task oriented conversation, strategy-centered reading and structure-based writing are involved with emphasis on complex sentence grammar. Approximately 300 additional Kanji (Sino-Japanese characters) are introduced.

Language of instruction: Japanese.

Prerequisite: AS/JP 1000 6.0 or equivalent.

AS/JP 2700 6.0 Contemporary Japanese Culture and Society. This course provides an overview of contemporary Japanese culture and society, to help students in understanding Japan and its people in the age of globalization and cross-cultural communication.

Language of instruction: English.

Degree credit exclusion: AS/JP 2800A 6.0.

Note: This course requires Internet access.

AS/JP 3000 6.0 Advanced Modern Standard Japanese. The course focuses on continuous texts; edited texts on various topics are read, summarized, translated and discussed with emphasis on discourse grammar. All Kanji (Sino-Japanese characters) in Education Characters (881) will be covered.

Language of instruction: Japanese.

Prerequisite: AS/JP 2000 6.0 or equivalent.

AS/JP 3720 6.0 Japanese Culture, Literature and Film. By comparing works by Japanese authors with related films, this course explores basic patterns and themes of Japanese culture.

Language of instruction: English.

Cross-listed to: AS/HUMA 3420 6.0, FA/FILM 3710 6.0.
AS/JP 4000 6.0 Advanced Reading in Contemporary Japanese. Readings in unannotated original essays and articles on current issues taken from periodicals; interpretation, translation, summarization and discussion of readings enable students to use a wide variety of Japanese materials independently. Recognition of characters for daily use (1,945).

Language of instruction: Japanese.
Prerequisite: AS/JP 3000 6.0 or equivalent.


Language of instruction: Japanese.
Prerequisites: AS/JP 3000 6.0 or equivalent; permission of the department.
Degree credit exclusion: AS/JP 4800B 6.0.

AS/JP 4110 6.0 Teaching of Japanese as a Foreign/Second Language. This course offers comprehensive teacher education and training for the Japanese language. The main objective is to familiarize teachers with current theories, methodologies and their practical applications developed in the relevant areas, with strong focus on the communicative approach, and computer assisted language learning and teaching.

Language of instruction: Japanese.
Prerequisites: AS/JP 4000 6.0 or equivalent (for non-native speakers of Japanese); TOEFL score: 580 or equivalent (for non-native speakers of English); BA or BA expected within a year (may be waived at the instructor’s discretion); teaching experience preferred; AS/LING 3230 3.0 strongly recommended.

AS/JP 4120 6.0 Translation: Japanese-English; English-Japanese. This course stresses translation practice from and into Japanese, dealing with texts taken from various fields and sources. The focus is on discourse organization, cross-cultural differences and stylistics.

Language of instruction: Japanese.
Prerequisites: AS/JP 4000 6.0, or equivalent, or AS/JP 3000 6.0, with permission of the instructor; permission of the department.
Degree credit exclusion: AS/JP 4800A 6.0.
Note: This course requires Internet access.

Korean

AS/KOR 1000 6.0 Elementary Modern Standard Korean. An introductory Korean language course for absolute beginners and those with a very limited knowledge of Korean. This course stresses the skills of listening, speaking, reading and writing, and includes some lectures and readings on various aspects of Korean culture.

Language of instruction: Korean/English.

AS/KOR 2000 6.0 Intermediate Modern Standard Korean. This course reviews topics of Korean grammar, and builds on students’ prior knowledge of Korean, stressing the skills of listening, speaking, reading and writing. Various aspects of Korean culture are considered.

Language of instruction: Korean/English.
Prerequisite: AS/KOR 1000 6.0, or equivalent; permission of the department.

Language and Learning

AS/LLS 1000 6.0 Language and Learning Seminar. This course is intended primarily to assist students with learning disabilities in their transition to university studies. It aims to enhance students’ theoretical understanding of language and to develop practical language skills in order to meet the academic demands of the university.

Degree credit exclusions: AS/FC 1160 6.0, AS/LLS 1800 6.0.

Latin

AS/LA 1000 6.0 Elementary Latin. This course is intended for students with no previous training in Latin.

Language of instruction: English.

Note: Further courses in Latin are listed in the Classical Studies section of this Calendar.

Linguistics

For a list of course offerings, see the Linguistics section of the Calendar.

Portuguese

AS/POR 1000 6.0 Elementary Portuguese. This course introduces the Portuguese language within its cultural contexts. The four skills of listening, speaking, reading and writing are emphasized. Students will acquire a functional competence in elementary written and spoken Portuguese. No previous knowledge of Portuguese is assumed.

Language of instruction: Portuguese/English.

Degree credit exclusion: AS/POR 1010 6.0.

AS/POR 1010 6.0 Portuguese for Beginners with Background. This course is intended for students who have some understanding but no formal training in Portuguese. Development of reading, speaking and grammar; oral and written exercises; written compositions; guidance in basic problems of interference from English.

Language of instruction: Portuguese.
Prerequisite: Permission of the department.
Degree credit exclusion: AS/POR 1000 6.0.

AS/POR 2000 6.0 Intermediate Portuguese. This course is intended for students with some oral and written knowledge of Portuguese, who wish to improve their command of the formal language. Development of speaking, listening and reading and writing skills; further study of grammar; vocabulary building; translation into Portuguese.

Language of instruction: Portuguese.
Prerequisite: AS/POR 1000 6.0 or AS/POR 1010 6.0 or equivalent, or permission of the department.
Degree credit exclusion: AS/POR 1050 6.0.

AS/POR 2600 6.0 Introduction to Portuguese Culture. This course presents an overview of Portuguese culture and civilization from the Portuguese era of pre-Roman times to Portugal as a European Union member.

Language of instruction: English.
Degree credit exclusion: AS/POR 2800A 6.0.

AS/POR 3000 6.0 Advanced Portuguese. This course gives students the skills to write and speak standard Portuguese, using reading and discussion of short texts from contemporary authors. Grammatical aspects of Portuguese are studied. Written assignments will reflect the topics and readings discussed in class.

Language of instruction: Portuguese.
Prerequisite: AS/POR 2000 6.0, AS/POR 1050 6.0 or permission of the department.
Degree credit exclusion: AS/POR 2040 6.0.

Russian

In AS/RU 2700 6.0, AS/RU 2750 6.0, AS/RU 3720 3.0, AS/RU 3730 3.0, AS/RU 3740 3.0, AS/RU 3750 3.0, AS/RU 3770 6.0, AS/RU 3790 6.0, AS/RU 4740 3.0, AS/RU 4750 3.0, AS/RU 4760 3.0 and AS/RU 4770 6.0, students majoring in Russian who are at the 3000-language level or above will be required to do a portion of the reading in Russian, the amount depending on their language level.

AS/RU 1000 6.0 Elementary Russian. Basic elements of Russian for beginners. Students receive training in the four skills of listening comprehension, speaking, reading and writing, by means of dialogues, drills and language laboratory sessions.

Language of instruction: Russian/English.
Note: Native and near-native speakers are ineligible for this course.

AS/RU 2000 6.0 Intermediate Russian. The aim of this course is to develop students’ reading skills, oral comprehension and ability to express themselves in Russian both in written and oral form. Special attention is devoted to a review and further study of grammar, vocabulary building, translation from and into Russian and conversation.

Language of instruction: Russian.
Prerequisite: AS/RU 1000 6.0, or OAC in Russian (or equivalent) with appropriate score on departmental placement test, or permission of the department.
Note: Native and near-native speakers are ineligible for this course.

AS/RU 2700 6.0 The Russian Novel in the 19th Century. A survey of Russian literature from its beginnings until 1880 with special emphasis on Pushkin, Lermontov, Gogol, Turgenev, Goncharov, Dostoevsky and Tolstoy. The relationship of Russian literature to other important European literatures of the 19th century is discussed.

Language of instruction: English.
Note: No knowledge of Russian required.

Russian majors normally begin their literature studies with this course.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 2750 6.0 Russian Culture: Continuity and Conflict (in translation).
This course examines Russian culture in an historical and social context focusing on Kievan Rus', the rise of Muscovy, the expansion of the Russian Empire and its revolutionary mutation into the Soviet Union, and the post-Soviet contemporary scene.

Language of instruction: English.

Cross-listed to: AS/HIST 2310 6.0, AS/HUMA 2750 6.0.

Degree credit exclusion: AS/HUMA 2990D 6.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 3000 6.0 Advanced Russian, Level I. A systematic review of grammar and an introduction to prose composition and translation. Conversation and discussion will be based on reading materials presenting various aspects of Russian culture.

Language of instruction: Russian.

Prerequisite: AS/RU 2000 6.0 or equivalent.

Note: Native and near-native speakers are ineligible for this course.

AS/RU 3720 3.0 Tolstoy (in translation).
Detailed examination of the major fiction of Tolstoy (in translation), with special stress on the novels War and Peace and Anna Karenina.

Language of instruction: English.

Cross-listed to: AS/EN 3720 3.0.

Degree credit exclusion: AS/EN 3160S 3.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 3730 3.0 Dostoevsky (in translation).
Detailed examination of the major fiction of Dostoevsky (in translation), with special stress on the novels Crime and Punishment, The Idiot, The Possessed and The Brothers Karamozov.

Language of instruction: English.

Cross-listed to: AS/EN 3730 3.0.

Degree credit exclusion: AS/EN 3160R 3.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 3740 3.0 Chekhov: Plays and Short Stories (in translation).
This course analyzes the plays and short stories of the late 19th-century Russian writer Anton Chekhov.

Language of instruction: English.

Degree credit exclusions: AS/RU 3740 6.0, AS/RU 4740 3.0, AS/RU 4740 6.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 3750 3.0 Petersburg in Russian Literature and Culture (in translation). This course examines the Petersburg theme in Russian literature and culture as expressed in the works of Russian writers of the 19th and early 20th centuries.

Language of instruction: English.

Degree credit exclusions: AS/RU 3740 6.0, AS/RU 4740 6.0, AS/RU 4750 3.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 3770 6.0 Russian Literature After 1917. A survey featuring such writers as Gorky, Mayakovsky, Zamiatin, Babel, Olesha, Bulgakov, Ill and Petrov, Zoshchenko, Evrushedko, Voznesensky, and the Nobel prize winners Sholokhov, Pasternak, and Solzhenitsyn, plus five-year plan novels and works of socialist realism.

Language of instruction: English.

Degree credit exclusion: AS/RU 4770 6.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 3790 6.0 Russian and East European Film and Culture (in translation).
Russian and East Central European Film and Culture. A study of the film masterpieces of the countries of Eastern Europe and the former USSR from silent cinema to the present. The films are examined in their aesthetic and cultural context, thereby introducing students to the culture and society of this area.

Language of instruction: English.

Cross-listed to: AS/HUMA 3982 6.0.

Degree credit exclusion: AS/HUMA 3990H 6.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 4000 6.0 Advanced Russian, Level II. Intensive review of the more difficult areas of morphology; further study of syntax; additional training in translation and free composition; an introduction to practical stylistics; and discussions based on assigned readings on a wide range of topics.

Language of instruction: Russian.

Prerequisite: AS/RU 3000 6.0 or equivalent.

Note: Native and near-native speakers are ineligible for this course. This course is reserved for Russian majors.

AS/RU 4550 3.0 Russian Prose of the 19th Century. A thematic and stylistic analysis of Russian prose works in the original, including selections from such authors as Gogol, Andreev, Bunin, Zamyatin, Babel, Olesha, Leonov, Sholokhov, Bulgakov, Pasternak and Solzhenitsyn.

Language of instruction: Russian.

Prerequisite (or corequisite with permission of the department): AS/RU 4000 6.0 with a minimum grade of C or equivalent.

AS/RU 4560 3.0 Russian Poetry of the 19th Century. A study of themes and techniques of Russian poetry in the original, including works by Pushkin, Lermontov, Tyutchev, Nekrasov, Fet and others.

Language of instruction: Russian.

Prerequisite (or corequisite with permission of the department): AS/RU 3000 6.0 with a minimum grade of C.

AS/RU 4650 3.0 Russian Prose of the 20th Century. A thematic and stylistic analysis of Russian prose works in the original, including selections from such authors as Bely, Sologub, Gorky, Andreev, Bunin, Zamyatin, Babel, Olesha, Leonov, Sholokhov, Bulgakov, Pasternak and Solzhenitsyn.

Language of instruction: Russian.

Prerequisite (or corequisite with permission of the department): AS/RU 4000 6.0 with a minimum grade of C or equivalent.

AS/RU 4660 3.0 Russian Poetry of the 20th Century. A study of themes and techniques of Russian poetry in the original, including works by Blok, Akhmatova, Mandel'shtam, Mayakovsky, Esenin, Tsветаева, Pasternak, Brodsky and others.

Language of instruction: Russian.

Prerequisite (or corequisite with permission of the department): AS/RU 4000 6.0 with a minimum grade of C or equivalent.

AS/RU 4740 3.0 Chekhov: Plays and Short Stories (in translation). This course analyzes the plays and short stories of the late 19th-century Russian writer Anton Chekhov.

Language of instruction: English.

Degree credit exclusions: AS/RU 3740 3.0, AS/RU 3750 6.0, AS/RU 4740 6.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 4750 3.0 Petersburg in Russian Literature and Culture (in translation). This course examines the Petersburg theme in Russian literature and culture as expressed in the works of Russian writers of the 19th and early 20th centuries.

Language of instruction: English.

Degree credit exclusions: AS/RU 3740 6.0, AS/RU 3750 3.0, AS/RU 4740 6.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.

AS/RU 4760 3.0 Solzhenitsyn. Detailed examination of the writings of one of the 20th-century’s great Russian writers, including such works as First Circle, Cancer Ward and Gulag Archipelago.

Language of instruction: English.

Note: Students taking this course for major or minor credit in Russian are required to complete some course work in Russian.
Courses of Instruction


*Language of instruction: Spanish.*


AS/SP 2200 6.0 *Introducción a la Literatura Española.* This course provides a general background in literature from the medieval period to the 20th century and in literary criticism. It is required for all students who intend to major or minor in Spanish. Students should take this course during their first 10 courses.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2000 6.0 or equivalent, or AS/SP 1000 6.0 with a minimum grade of A and concurrent enrolment in AS/SP 2000 6.0, or permission of the department.

AS/SP 3000 6.0 *Introducción a la Literatura Española.* This course develops the student's command of Spanish grammar through the writing of multiple drafts of essays, the discussion of advanced and subtle aspects of grammar and style, and the analysis of selected readings.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2000 6.0 or equivalent, with a minimum grade of C.

Degree credit exclusion: AS/SP 2040 6.0.

AS/SP 3040 6.0 *A Socio-Cultural Approach to Spanish for Commerce.* This course examines the cultural concepts that inform the world of business within Spanish-speaking societies. Short stories, journalistic prose and historical and geographic materials are read and communicative skills appropriate for a Spanish-speaking commercial environment are developed.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 3000 6.0 or AS/SP 2040 6.0 or permission of the department.


AS/SP 3110 3.0 *Stylistics.* This course is designed to teach students of the Spanish language some basic aspects of stylistics and to provide practice in stylistic analysis of both literary and non-literary texts. The language of instruction is Spanish.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 3000 6.0 or AS/SP 2040 6.0 (preferably with a minimum grade of B) or permission of the department.

AS/SP 3120 3.0 *English-Spanish and Spanish-English Translation.* This course helps students to learn some of the skills necessary for accurate written translation from English to Spanish and vice versa.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 3000 6.0 or AS/SP 2040 6.0 (preferably with a minimum grade of B) or permission of the department.

AS/SP 3210 6.0 *Introducción a la Literatura Española.* An intensive study of prose and poetry from colonial times to the 20th century, with some reference to historical and social influences on the development of literature.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 3360 3.0 *Spanish Poetry and the Golden Age.* A study of selected poetry from the Renaissance and Baroque periods. Works by Garcilaso, Fray Luis de León, Herrera, San Juan de la Cruz, Góngora, Lope de Vega and Quevedo.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 3370 3.0 *Spanish Theatre of the Golden Age.* The rise and development of the Spanish theatre in the Renaissance and Baroque periods.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 3540 3.0 *19th-Century Spanish Poetry.* A study of representative works of the more important Spanish poets from the Romantic period to the end of the 19th century.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 3560 3.0 *19th-Century Spanish Theatre.* A study of representative works of the most important Spanish playwrights of the Romantic, Post-Romantic and Realist schools.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 3570 6.0 *19th- and Early 20th-Century Spanish Prose.* A study of novels and short stories by outstanding Spanish writers, including Larra, Valera, Galdós, Blasco Ibáñez and Unamuno.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 3580 6.0 *The Generation of 1898 and Modern Spain.* A study of major Spanish writers and thinkers from the generation of 1898 up to the present and their response to the problems facing the Spanish nation. Among the authors to be studied are Unamuno, Machado, Baraja, Zorita, A. Ortega y Gasset and contemporary women writers.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 3660 6.0 *20th-Century Spanish Poetry and Theatre.* This course explores the development of poetry and theatre in 20th-century Spain and acquaints students with the literary and aesthetic values of poetic and dramatic works of the period.

*Language of instruction: Spanish.*

Prerequisite: AS/SP 2200 6.0 or permission of the department.

Prerequisite: AS/SP 3000 6.0, or permission of the department.

Prerequisite: AS/SP 1000 6.0, or OAC Spanish, or Grade 12 U or M Spanish, or placement through testing.

Degree credit exclusions: AS/SP 3770 6.0.

Note: Students taking this course for major or minor credit in Russian are required to complete some coursework in Russian.
Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 4150 6.0 History of the Spanish Language. The evolution of the Spanish language from Vulgar Latin to the present time. First Spanish texts. Spanish as a Romance language. Arabic and other foreign influences on the formation of Spanish.

Language of instruction: Spanish.
Prerequisite: AS/SP 2040 6.0 and AS/SP 2200 6.0 or permission of the department.


Language of instruction: Spanish.
Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 4300 6.0 Medieval Spanish Literature (from 1100 to 1400). An exploration of the origins and development of medieval Spanish poetry and prose with particular emphasis on major works such as Poema de Mio Cid, Los Milagros and El Libro de Buen Amor.

Language of instruction: Spanish.
Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 4310 3.0 The Non-Christian in Medieval Spanish Literature. This course focuses on the descriptions of Moslems and Jews in the literature of Medieval Spain. Particular attention is paid to representation, including stereotypical and satiric descriptions.

Language of instruction: Spanish.
Prerequisite: AS/SP 2200 6.0 or equivalent, or permission of the department.

AS/SP 4350 6.0 Spanish Prose of the Golden Age. This course covers important aspects of Spain’s intellectual life during the Golden Age. While most of the texts to be read are works of literature, some are expository works which reflect religious, philosophical and political ideas of the period.

Language of instruction: Spanish.
Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 4580 3.0 Spanish-American Modernismo. A survey of the poetry of the major Spanish-American modernists Jose Martí Ruben Darió, Julian del Casal and Manuel Gutiérrez Najera. In addition, the course considers the social and literary milieu of the period.

Language of instruction: Spanish.
Prerequisite: AS/SP 2200 6.0 or permission of the department.


Language of instruction: Spanish.
Prerequisite: AS/SP 2200 6.0 or permission of the department.

AS/SP 4660 6.0 Contemporary Spanish Prose (Since 1939). Detailed examination of the Spanish novel and short story written after the Civil War (1936-1939), including such authors as Cela, Delibes, Matute, Ayala Martin-Gaité.

Language of instruction: Spanish.
Prerequisite: AS/SP 2200 6.0 or permission of the department.

Vietnamese

AS/VNAM 1000 6.0 Elementary Vietnamese. An introductory Vietnamese language course for absolute beginners and those with a very limited knowledge of Vietnamese. This course stresses the skills of listening, speaking, reading and writing, and includes some lectures and readings on various aspects of Vietnamese culture.

Language of instruction: Vietnamese/English.

Independent Reading and Research

AS/XX 3900 3.0/3900 6.0; AS/XX 4900 3.0/ 4900 6.0 Supervised Independent Reading and Research. (As appropriate, any subject prefix used in the department would replace “XX” in the course number.) A student may take an independent, individually supervised reading/research course, provided that the student and the course meet the requirements as set out by the Faculty of Arts and those established by the department.

Note: Independent reading/research courses require a signed agreement between the student and faculty member, as well as the approval of the section coordinator and undergraduate director.

Note: Please consult the Faculty of Arts Academic Advising and Student Responsibility section of the Calendar for detailed regulations regarding independent reading courses.

Special Topics

AS/XX 1800 3.0/1800 6.0; AS/XX 2800 3.0/ 2800 6.0; AS/XX 3800 3.0/3800 6.0; AS/XX 4800 3.0/4800 6.0; AS/XX 4810 3.0; AS/XX 4820 3.0 Special Topics. (As appropriate, any subject prefix used in the department would replace “XX” in the course number.) Under the heading of Special Topics the department may, from time to time, offer on a one time only basis courses which are not usually taught in the department. Such courses may focus on content pertaining to any of the different subject areas taught in the department.

Latin American and Caribbean Studies – Arts

Program Office:
324 Founders College, 416-736-2100, ext. 33320
Web Address:
www.yorku.ca/sosci/students/lacs.html
Coordinator of the Program:
A. Davis
Faculty Members:
W.W. Anderson, D. Barndt, F. Birbalsingh,
J. Buttrick, E. Canel, R. Cox, H.E. Daugherty,
A. Davis, E. Dosman, G.V. Doxey, C.Duran,
Z. Ellis, M. Feliciano, W.C. Found, D. Freeman,
K. Golby, G. Gold, L. Goldring, M.J. Goodman,
R.W. Grant, R. Grinspun, J.A .Hellman,
F. Henry, M. Kellman, P. Landstreet,
S. Lanfranco, L. Lefebre, J. Liambias-Wolf, P.E. Lovejoy, M. Magnotta, J.M. Maiguashca,
R. Marcus, E. Melville, L.L. North, V. Patrioni,
L. Pena, A. Sekyi-Otu, M. Silverman,
A. Simmons, D. Smaller, P.D.M. Taylor,
D. Trotman, P. Valle-Garay, D. Yon
The Interdisciplinary Program in Latin American and Caribbean Studies (LACS) allows students to pursue their interest in Latin America and the Caribbean by taking courses taught in a number of departments and divisions in the Faculty of Arts. Students can double major or minor in Latin American and Caribbean studies and an Honours BA program in the Faculty of Arts. The LACS Program offers introductory core courses in Latin American and Caribbean studies as well as other introductory and upper-level courses in the area. The purpose of the core courses is to introduce and develop interdisciplinary ways of looking at the regions while at the same time integrating knowledge obtained in other courses. The program courses provide shared intellectual meeting grounds for LACS majors and other students. The interdisciplinary nature of the LACS Program ensures a broad and deep understanding of the Latin American and Caribbean regions.

The LACS Program works together with Founders College and the Centre for Research on Latin America and the Caribbean (CERLAC) to offer students a wide variety of events related to the Latin American and Caribbean regions. These include guest lectures by internationally renowned academics, workshops and conferences, and cultural and social events. LACS majors and minors may also use the Documentation Centre of the Centre for Research on Latin America and the Caribbean (CERLAC, 240 York Lanes).

LACS majors are also encouraged to join the LACS Students Association (LACSA), which provides students with an opportunity to meet together and set their own agenda.

Study Abroad Programs: York University has a formal student exchange agreement with the University of the West Indies (UWI) which allows York students to study at UWI and get credit from York. LACS majors may also get additional credit for other courses taken at other universities in the Latin American and Caribbean area. For further information contact York International or the LACS coordinator.
For specific program requirements please consult the Faculty of Arts Programs of Study section of this Calendar.

**Courses in Latin American and Caribbean Studies**

For course descriptions, please refer to the appropriate departmental/divisional listings in this Calendar or the relevant departmental/divisional supplemental calendar. Not all of the courses listed below will necessarily be offered in any given year. For details of courses to be offered, please consult the Latin American and Caribbean studies supplemental calendar.

Subject to degree credit exclusion and in-Faculty regulations, and with the approval of the program coordinator, students may take courses at the Faculties of Atkinson, Environmental Studies, Fine Arts or Glendon for major or minor credit in Latin American and Caribbean studies.

**Note:** For purposes of meeting program requirements, all foundations courses will count as six credits towards the major or minor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>AS/CON 3310</td>
<td>Development Economics I</td>
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<td>AS/CON 3320</td>
<td>Development Economics II</td>
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<tr>
<td>AS/EN 2370</td>
<td>Post-Colonial Literature</td>
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<tr>
<td>AS/EN 4231</td>
<td>Studies in Post-Colonial Literature</td>
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<tr>
<td>AS/FRA 2052</td>
<td>Music and Identity in the French Caribbean</td>
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<tr>
<td>AS/FRA 2053</td>
<td>Literature and Identity in the French Caribbean</td>
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<tr>
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<td>Music and Identity in the French Caribbean</td>
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<tr>
<td>AS/FR 2053</td>
<td>Literature and Identity in the French Caribbean</td>
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<tr>
<td>AS/GEOG 3020</td>
<td>Geographical Transformation of the Caribbean Islands</td>
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<tr>
<td>AS/HIST 2720</td>
<td>Modern Latin America, 1810 to the Present</td>
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<tr>
<td>AS/HIST 3700</td>
<td>African, Caribbean and Latin American Connections: The Making of the South Atlantic World</td>
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<tr>
<td>AS/HIST 3710</td>
<td>Ideology, Politics and Revolution in the Caribbean</td>
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<td>AS/HIST 3720</td>
<td>Mexican History from the Aztecs to the Mexican Revolution (1325-1911)</td>
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<td>AS/HIST 4750</td>
<td>Backwardness and Revolution in Latin America</td>
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<td>AS/HIST 4755</td>
<td>Cultural and Social History of Colonial Latin America</td>
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<td>AS/HUMA 2310</td>
<td>Introduction to Caribbean Studies</td>
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<td>AS/HUMA 4300</td>
<td>Aspects of Modern Latin American and Caribbean Studies</td>
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<td>AS/HUMA 4310</td>
<td>Religion and Politics in the Caribbean</td>
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<td>AS/POLS 3790</td>
<td>The Political Economy of Latin America and the Caribbean</td>
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<tr>
<td>AS/POLS 4225</td>
<td>Canada and the Americas</td>
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<tr>
<td>AS/POLS 4540</td>
<td>Caribbean Politics</td>
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<td>AS/SOSC 2460</td>
<td>Contemporary Latin America</td>
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<tr>
<td>AS/SOSC 2470</td>
<td>Caribbean Society in Transition: Emancipation to Independence</td>
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<td>AS/SOSC 3410</td>
<td>The Political Economy of Latin America and the Caribbean</td>
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<td>AS/SOSC 4450</td>
<td>Aspects of Modern Latin American and Caribbean Studies</td>
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<td>AS/SOCL 3330</td>
<td>Politics and Society in Latin America</td>
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<td>AS/SOCL 4350</td>
<td>Sociology of International Migration</td>
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<td>AS/SP 2110</td>
<td>Introduction to Spanish-American Literature</td>
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<td>AS/SP 4220</td>
<td>The Spanish American Essay and Short Story</td>
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<tr>
<td>AS/SP 4580</td>
<td>Spanish-American Modernismo</td>
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<tr>
<td>AS/SP 4640</td>
<td>The Spanish-American Novel of the 20th Century</td>
<td>6.0</td>
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</tbody>
</table>

**Law and Society – Arts**

**Program Office (Division of Social Science):**

S741 Ross, 416-736-5054

**Web Address:**

www.arts.yorku.ca/lands/

**Coordinator of the Program:**

A. Bunting

**Members:**

- M. Beare, Sociology
- A. Bunting, Social Science
- D. Ellis, Sociology
- L. Green, Philosophy/Law
- I. Greene, Political Science
- P. Harries-Jones, Anthropology
- L. Jacobs, Social Science
- G. Kellough, Social Science
- J. Landa, Economics
- P. McDermott, Social Science
- P. Oliver, History
- R. Schuller, Psychology
- G. Szabolowski, Political Science
- R. Weisman, Social Science
- K. White, Social Science

Law is one of the most significant expressions of a society’s social and political development. In recent years social scientists from many disciplines have begun to analyze the interplay between law and society. We live in a period of widespread public interest in law that arises from a concern with problems of social justice, social control and social deviance. Academic disciplines such as anthropology, economics, history, philosophy, political science, psychology and sociology have increasingly focused on such issues as the nature and origin of law; law-making and law-breaking; rights and obligations; freedom and responsibility and law as social policy. These are matters of increasing concern to teachers, social workers, businessmen, doctors and public servants whose professional responsibilities demand a knowledge of the relationship of law to their own fields.

The goals of the program may be stated briefly: to affirm the intellectual importance of the study of law and society and law in society; to provide a framework within which faculty and students may explore, within disciplines and between them, descriptive and analytic approaches to the subject; and to sharpen the appreciation of law as part of the active daily life of the student.

The program must be seen within the context of a liberal education. It is not a pre-law school program or a prerequisite for law school admission. It is designed for interested undergraduate students, whatever their future career orientation.

**Seneca College of Applied Arts and Technology** offers a one year diploma program in Court and Tribunal Administration for York graduates who have completed the Honours Double Major Interdisciplinary BA Program in Law and Society and one of the affiliated departments. For information about the Seneca College program, contact the director.

**Courses in Law and Society**

For course descriptions, please refer to the appropriate departmental/divisional listings in this Calendar or the relevant departmental/divisional supplemental calendar. Not all of the courses listed below will necessarily be offered in any given year. For details of courses to be offered, please consult the law and society supplemental calendar.

Subject to degree credit exclusion and in-Faculty regulations, and with the approval of the program coordinator, students may take courses at the Faculties of Atkinson, Environmental Studies, Fine Arts or Glendon for major credit in law and society.

**Note:** For purposes of meeting program requirements, all foundations courses will count as six credits towards the major.

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<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
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<tr>
<td>AS/ANTH 4200</td>
<td>Labour Economics – Theory</td>
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<tr>
<td>AS/CON 3320</td>
<td>Labour Economics – Institutions</td>
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<td>AS/EN 3320</td>
<td>Canadian History</td>
<td>6.0</td>
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<tr>
<td>AS/HIST 3030</td>
<td>Crime and Punishment in Western Societies</td>
<td>6.0</td>
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<tr>
<td>AS/HIST 3415</td>
<td>Law, Property and Freedom in Britain and its Empire</td>
<td>6.0</td>
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<tr>
<td>AS/HIST 3591</td>
<td>Law, Property and Freedom in Britain and its Empire</td>
<td>6.0</td>
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<tr>
<td>AS/HIST 3850</td>
<td>Law and Justice in 20th-Century North America</td>
<td>6.0</td>
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<td>AS/LING 2450</td>
<td>Language in its Social Context</td>
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<td>AS/LING 2450</td>
<td>Language and the Law</td>
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<td>AS/PHIL 2050</td>
<td>Philosophy of Law</td>
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<td>AS/PHIL 2060</td>
<td>Social and Political Philosophy</td>
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<td>AS/PHIL 2070</td>
<td>Introduction to Ethics</td>
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<td>AS/PHIL 2075</td>
<td>Introduction to Applied Ethics</td>
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<td>AS/PHIL 3110</td>
<td>Political Philosophy</td>
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<td>AS/PHIL 4190</td>
<td>Topics in the Philosophy of Law</td>
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<td>AS/POLS 2040</td>
<td>Introduction to Political Theory</td>
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<tr>
<td>AS/POLS 3075</td>
<td>Law, Justice and Jurisprudence</td>
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<tr>
<td>AS/POLS 3165</td>
<td>Problems in Canadian Business Law</td>
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<tr>
<td>AS/POLS 3600</td>
<td>Public Law I</td>
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<td>AS/POLS 3605</td>
<td>Public Law II</td>
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<td>AS/POLS 4015</td>
<td>Theories of Justice</td>
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<td>AS/POLS 4440</td>
<td>Human Rights in Europe</td>
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<tr>
<td>AS/POLS 4445</td>
<td>European Union</td>
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<td>AS/POLS 4600</td>
<td>Judicial Administration in Canada</td>
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<td>AS/POLS 4601</td>
<td>Systems of Justice</td>
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<td>AS/PSYC 2120</td>
<td>Social Psychology</td>
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<td>AS/PSYC 3140</td>
<td>Abnormal Psychology</td>
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<tr>
<td>AS/SOSC 1210</td>
<td>Human Rights and Canadian Minorities</td>
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</table>
AS/SOSC 1350 9.0 Women and the Law.
AS/SOSC 2330 9.0 The Economics of Law, Policy and Organizations.
AS/SOSC 2350 6.0 Law and Society.
AS/SOSC 3165 6.0 Problems in Canadian Business Law.
AS/SOSC 3390 6.0 The Charter of Rights and Freedoms.
AS/SOSC 3370 6.0 Social Justice and Law.
AS/SOSC 3380 6.0 Law, Labour and the State.
AS/SOSC 3381 6.0 Criminal Justice System.
AS/SOSC 3382 6.0 Criminology Theory.
AS/SOSC 3391 6.0 Social Diversity and the Law.
AS/SPSC 3392 6.0 Ethnographies of Rights.
AS/SOSC 3992 6.0 Popular Trials.
AS/SOSC 3993 3.0 Strategies of Social Science Research.
AS/SOSC 4350 6.0 Law and Society Seminar.
AS/SOCI 2070 6.0 Social Order and Social Organization.
AS/SOCI 3430 6.0 Ethnicity, Power and Identity.
AS/SOCI 3810 6.0 Sociology of Crime and Delinquency.
AS/SOCI 4440 6.0 Race, Minorities and the Legal Order.
AS/SOCI 4810 6.0 Women and the Criminal Justice System.
AS/SOCI 4840 6.0 Sociology of Policing.
AS/SOCI 4850 3.0 Organized Crime.

General Certificate in Law and Society

The Law and Society Program offers a certificate to students who take SOSC 2350 6.0 and an additional 18 credits from the list of approved courses. Six of these credits must be at the 4000 level. Students who apply for a certificate will be asked to indicate whether they are eligible for the certificate on the application form they fill out (application to graduate form) prior to their graduation. For further information, please contact the secretary or coordinator of the Law and Society Program.

For specific certificates requirements please consult the Faculty of Arts Programs of Study section of this Calendar.

Linguistics – Arts

Department Office:
S561 Ross, 416-736-5016
Web Address: www.yorku.ca/linguist/
Program Coordinator:
P. Avery

Linguistics is concerned with discovering the principles in terms of which natural languages are organized and applying these principles to the description of individual languages. Using systematic descriptions of language and language usage, linguists also investigate how language interacts with our intellectual life.

Because language mediates virtually all forms of human endeavour, the study of linguistics can provide new perspectives on almost every aspect of the humanities and social sciences. In addition, it has applications to primary and secondary education, speech-language pathology and the applied sciences of communication engineering and computer science.

For specific program requirements please consult the Faculty of Arts Programs of Study section of this Calendar.

Courses in Linguistics

Courses of Instruction

AS/LING 1000 6.0 Introduction to Linguistics. An examination of fundamental principles of language organization including the study of phonetics, phonology, morphology and syntax from both practical and theoretical points of view with illustrations from English and a variety of other languages. Brief survey of the areas of sociolinguistics, child language acquisition, historical linguistics and psycholinguistics.

Prerequisite: AS/LING 1000 6.0 or equivalent, with a grade of C. Cross-listed to: AS/EN 2060 6.0.


AS/LING 2100 3.0 Phonetics. This course examines various aspects of phonetics, including the articulatory and acoustic properties of speech sounds. There will also be intensive practice in the recognition of speech sounds as well as limited amount of work on sound production. Prerequisite or corequisite: AS/LING 1000 6.0 or permission of the department.

AS/LING 2120 3.0 Fundamentals of Phonological Analysis. Practical techniques of phonological analysis exemplified by data taken from a variety of languages. Practice in the use of distinctive features and rule formalisms. Prerequisite: AS/LING 1000 6.0 or equivalent, with a grade of C.

AS/LING 2140 3.0 Fundamentals of Grammatical Analysis. Practical techniques of grammatical analysis exemplified by data taken from a variety of languages. Prerequisite: AS/LING 1000 6.0 or equivalent, with a grade of C.

AS/LING 2400 3.0 Language in its Social Context. An introduction to the study of language as a social phenomenon. Topics covered include language varieties; stereotypes and social identity; language, culture and thought; communicative competence; bilingualism and diglossia; languages in contact; language and social deprivation; and language planning and language policy.

AS/LING 2410 3.0 Language and Gender. This course explores the relationship between language and sex/gender systems from a feminist perspective. The main areas dealt with are language and sex stereotypes; language, power and women’s status; and male versus female communicative style in different sociocultural contexts. Cross-listed to: AK/AS/GL/WMST 2501 3.0, GL/SOSC 2900E 3.0.

AS/LING 2430 3.0 Language, Power and Persuasion. This course investigates the language of power and persuasion. The language used by powerful and powerless groups is analyzed to determine how it reinforces positions of dominance and subordination. The role of language in public persuasion is also considered.

AS/LING 2440 3.0 Languages and Societies. The study of the distribution, spread and interaction of language varieties; language and cultural conflict; and language and cultural change. The course surveys past and present language situations in major culture-areas, such as Europe, East Asia, the Arab world and South Asia.

Prerequisite: AS/LING 2400 3.0 or permission of the department.

AS/LING 2450 3.0 Language and the Law. This course explores ways in which the discipline of linguistics can shed light on the use of language in the legal system. Topics include the special characteristics of written legal language, spoken language in the courtroom and linguists as expert witnesses.

AS/LING 2460 3.0 South Asian Language and Society. A survey of the diversity and unity of language in the South Asian cultural area and in South Asian diasporic communities focusing on the role of language in defining identity and in mediating social and cultural change.

Language of instruction: English.

AS/LING 3040 3.0 Historical Linguistics. An introduction to the study of the development of language systems through time, including the principles of genetic classification of languages, comparative grammar and internal reconstruction. Prerequisite: AS/LING 2120 3.0 with a grade of C or better or permission of the department.

AS/LING 3050 3.0 Linguistic History of English. A study of the principal changes in the English language from Anglo-Saxon times to the present day. Prerequisite: AS/LING 2120 3.0 and AS/LING 2410 3.0 with a grade of C or better, or permission of the department.

Degree credit exclusion: AS/LING 4060 3.0.

AS/LING 3120 3.0 Phonology. Theoretical principles and practical techniques of phonological analysis exemplified by data taken from a variety of languages.
This course provides a basic introduction to generative syntax, in particular to the recent work of Noam Chomsky and his followers. Although most of the data analyzed will be English, syntactic patterns of other some languages will be discussed.

Prerequisite: AS/LING 2140 3.0 or equivalent.

AS/LING 3150 3.0 Semantics. This course provides an introduction to sentence-level semantics. Some topics in word-level semantics are also considered. Issues are examined primarily from the perspective of a version of truth-conditional semantics.

Prerequisite: AS/LING 2140 3.0 or permission of the department.

Degree credit exclusion: AS/LING 4800C 3.0.

AS/LING 3160 3.0 Discourse Analysis. This course provides an analysis of spoken and written texts in context. Specific topics include spoken versus written discourse; the role of context in the interpretation of utterances; cohesion and coherence; and the relationship between information structuring and grammatical forms.

Prerequisite: AS/LING 1000 6.0 or AS/LING 2060 6.0.

AS/LING 3210 3.0 First Language Acquisition. This course surveys first language acquisition from a variety of approaches, including social interactionist, innatist and information processing.

Prerequisite: AS/LING 1000 6.0 or AS/LING 3220 3.0 (cross-listed to: AS/PSYC 3290 3.0).

AS/LING 3220 3.0 Psycholinguistics. A survey of psycholinguistic research and theory; topics include language acquisition, psychological correlates of transformational grammars, information-processing approaches to language.

Cross-listed to: AK/AS/SC/PSYC 3290 3.0.

Prerequisite: AS/LING 1000 6.0 or AS/PSYC 1010 6.0.

Degree credit exclusion: AK/PSYC 3250 3.0.

AS/LING 3240 3.0 Second Language Acquisition. This course deals with the main issues of second language acquisition. Topics treated include similarities and differences between first and second language acquisition, bilingualism and various theories such as interlanguage, the contrastive analysis hypothesis and the monitor model.

Prerequisite: AS/LING 1000 6.0 or AS/LING 3220 3.0.

Degree credit exclusion: AS/LING 3230 3.0.

AS/LING 3410 3.0 Writing Systems. This course deals with the interaction of spoken language and writing structure; functioning and cultural spread of writing systems; historical relationships; and orthographic change, reform and design. Systems studied include Roman, Greek, Cyrillic, Arabic and Hebrew alphabets, and systems of the Indian subcontinent, Korea, China and Japan.

Prerequisite: AS/LING 1000 6.0 or AS/LING 2060 6.0 or permission of the department.

AS/LING 3600 3.0 Socio-Political Issues in Second Language Teaching. Teaching English to speakers of other languages (TESOL) takes place within a complex socio-political context. Selected issues are used to consider how this context influences the teaching/learning process.

Note: This course will not count for major or minor credit in linguistics.

AS/LING 4050 3.0 Topics in Historical Linguistics. This course includes further study of the comparative method and internal reconstruction, the role of typology, and the weighing of different types of evidence, using these as a springboard to consideration of topics of current interest to practising historical linguists.

Prerequisite: AS/LING 3040 3.0 with a minimum grade of C+, or permission of the department.

AS/LING 4070 3.0 A History of the Romance Language Family. A study of the evolution of the various members of the Romance family from Latin to the present day, with emphasis on French, Spanish and Italian.

Prerequisite: Completion of AS/LING 3040 3.0 with a grade of C+ or better, or permission of the department.

AS/LING 4120 3.0 Phonological Theories. This course concentrates on recent developments in phonological theory within a generative framework. Specific topics include the representation of segments, autosegmental phonology, syllable structure, metrical phonology and lexical phonology.

Prerequisite: AS/LING 3120 3.0 with a grade of C+ or better, or permission of the department.

AS/LING 4140 3.0 Grammatical Theories. This course examines the issues and assumptions underlying the development of different linguistic theories. The foundations and formal framework of Government-Binding Theory, the most recent version of Chomsky’s Extended Standard Theory, will be introduced and later compared with a competing linguistic theory.

Prerequisite: AS/LING 3140 3.0 with a grade of C+ or better, or permission of the department.

AS/LING 4140 3.0 Grammatical Theories. This course concentrates on recent developments in grammatical theory within a generative framework. Specific topics include the representation of segments, autosegmental phonology, syllable structure, metrical phonology and lexical phonology.

Prerequisite: AS/LING 3120 3.0 with a grade of C+ or better, or permission of the department.

AS/LING 4190 3.0 Theoretical Issues in First Language Acquisition. This course examines the acquisition of linguistic structures as seen from the perspectives of principles and parameters theory, the competition model and current theories of phonological development.

Prerequisite: AS/LING 3120 3.0, AS/LING 3140 3.0 and AS/LING 3210 3.0 with grades of C+ or better, or permission of the department.

AS/LING 4210 3.0 Theoretical Issues in Second Language Acquisition. This course examines the relationship between linguistic theory and second language acquisition including the nature of second language learners’ linguistic representations from both linguistic and neurolinguistic perspectives, the role of Universal Grammar, and elicitation and interpretation of second language data.

Prerequisite: Completion of AS/LING 3110 3.0 (formerly AS/LING 3230 3.0) with a grade of B+ and AS/LING 3120 3.0 and AS/LING 3140 3.0 with grades of B+, or permission of the department.

AS/LING 4320 6.0 Field Methods. This course provides students with the skills and techniques necessary to conduct independent linguistic field work.

Prerequisites: Completion of AS/LING 2110 3.0, AS/LING 3120 3.0 and AS/LING 3140 3.0 with grades of C+ or better, or permission of the department.

AS/LING 4350 3.0 Pidgin and Creole Linguistics. Pidgins and Creoles are languages that develop from contact between groups of people who have no common means of communication. This course examines the historical and social circumstances in which these languages, their linguistic characteristics and their relevance to linguistic theory.

Prerequisites: AS/LING 2120 3.0, AS/LING 2140 3.0, and six credits at the 3000 level in linguistics.

Degree credit exclusion: AS/LING 4800M 3.0.

AS/LING 4400 3.0 Sociolinguistic Variation and Change. This course examines language variation and change. Sociolinguistic variation is not random, but systematically reflects both social organization and features of the sociolinguistic context. Students will gain experience in all stages of sociolinguistic research and do an original research paper.

Prerequisites: AS/LING 2120 3.0, AS/LING 2140 3.0 and AS/LING 2400 3.0 with grades of C+ or better, or permission of the department.

Degree credit exclusion: AS/LING 3400 3.0.
AS/LING 4440 3.0 Topics in Grammatical Change. This course deals with morphosyntactic change from a broadly generative perspective. It focuses on large-scale changes, changes resulting in dialectal variation, and changes in progress. Both language-internal and language-external mechanisms by which change takes place are considered. 

Prerequisites: AS/LING 2140 3.0 and AS/LING 3140 3.0, both with grades of C+ or better. AS/LING 2400 3.0 and AS/LING 3040 3.0 are recommended.

Degree credit exclusion: AS/LING 4800B 3.0.

AS/LING 4900 3.0/4900 6.0 Independent Study. Students may arrange to undertake independent study with a member of the Linguistics Program. This allows students and instructors to work on topics of mutual interest which lie outside the usual course offerings. Contact the undergraduate coordinator for details.

Note: Please consult the Faculty of Arts Academic Advising and Student Responsibility section for regulations on independent reading courses.

Mathematics and Statistics – Arts, Pure and Applied Science

Department Office: N520 Ross. 416-736-5250
Chair of the Department: N. Madras


Associate Professors Emeriti: D.W.T. Bean, J.H. Grant, S.W. Lee, T. MacHenry, R.A. Schaufele

Assistant Professors: Y. Bensliname, L. Cysneiros, I. Farah, A. Gibbs, D. Liang, S. Wang, Z. Yang, M. Zabrocki, H. Zhu

Special Renewable Contract: E. Brettler, H. Joshi

Associate Lecturer: B. Wall

Lecturer: J. Ho

The Department of Mathematics and Statistics offers a wide range of courses in both pure and applied mathematics and statistics. These meet the needs of students who wish to major in mathematics or statistics as well as those who require some knowledge of mathematics or statistics in other disciplines. In addition, there are courses for those who have a general interest in these subjects.

Actuarial Profession. Students interested in the actuarial profession should consult the Department of Mathematics and Statistics for guidance. The department will be glad to suggest a program of courses which will be helpful in preparing for examinations of the Society of Actuaries.

Operations Research. The Canadian Operational Research Society (CORS) has recognized that graduation from a Program in Applied Mathematics, Mathematics or Statistics with a prescribed set of courses will qualify a student for the Diploma in Operations Research awarded by CORS. Interested students should consult the Department of Mathematics and Statistics for guidance.

For specific requirements of programs offered by this department, see the Faculty of Arts Programs of Study section of this Calendar for BA and BH Honours programs and see the Faculty of Pure and Applied Science Programs of Study section of this Calendar for BSc and BSc Honours programs.

Courses in Mathematics and Statistics

When selecting courses, please note the following:

1. A student taking lower-level mathematics courses may wish to make use of the services provided by the department’s Mathematics Laboratory.

2. AS/SC/MATH 1510 6.0 is intended for students who, despite having one or more OACs in mathematics (or equivalents), have a weak mathematical background. AS/SC/MATH 1510 6.0 can serve as preparation for AS/SC/MATH 1515 3.0 and from there entrance to further calculus courses.

3. Note on calculus courses for first-year students.

   a) BBA Honours students who wish to take only a minimum amount of mathematics should take both AS/MATH 1530 3.0 and AS/MATH 1540 3.0. The prerequisite for these courses is AS/SC/MATH 1515 3.0. The prerequisite for higher-level courses may take SC/MATH 1505 6.0 to satisfy the Faculty of Pure and Applied Science 1000-level mathematics requirement.

   Other students should be guided by paragraphs (c) and (d) below.

   b) A student with at least one OAC in mathematics or equivalent, but without previous calculus, must begin the study of calculus with AS/SC/MATH 1515 3.0.

   c) A student with at least one OAC in mathematics or equivalent can begin with AS/SC/MATH 1000 3.0 or AS/SC/MATH 1013 3.0 or AK/AS/SC/MATH 1300 3.0 and then take AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AK/AS/SC/MATH 1310 3.0.

4. Course numbering. Courses with second digit 5 cannot be used to satisfy departmental degree requirements except (i) by students in the bachelor Program in Mathematics for Commerce; and (ii) by students in other programs in a few cases as noted in program descriptions.

5. Arts students should note that some Atkinson Faculty of Liberal and Professional Studies courses are out-of-Faculty and there are restrictions on the number of out-of-Faculty courses that may be taken. Science students should note that some Atkinson Faculty of Liberal and Professional Studies courses are out-of-department — see the restrictions in note 2 under Mathematics and Statistics in the Faculty of Pure and Applied Science Programs of Study section of this Calendar.

Atkinson Faculty of Liberal and Professional Studies MATH courses which are cross-listed with MATH courses offered by the Faculties of Arts and Pure and Applied Science are identified in the course outlines below. For a list of other Atkinson Faculty of Liberal and Professional Studies courses which are equivalent to and/or degree credit exclusions for MATH courses in this Calendar, Faculty of Arts students should consult the Faculty of Arts degree credit exclusion/equivalent tables in the back of the Lecture Schedules. Science students should consult the Faculty of Pure and Applied science degree credit exclusion/equivalent tables in the back of the Lecture Schedules and in the Office of Science Academic Services beginning in March each year.

AS/SC/MATH 1000 3.0 Differential Calculus (Honours Version). Axions for real numbers, limits, continuity and differentiability. This course covers slightly fewer topics than AS/SC/MATH 1300 3.0, but covers them in greater depth. It should be taken by all those planning an Honours degree in mathematics or a Specialized Honours degree in statistics.

Prerequisite: AS/SC/MATH 1515 3.0 or OAC calculus or equivalent.

Courses of Instruction

**AS/SC/MATH 1010 3.0 Integral Calculus (Honours Version).** Riemann integral, fundamental theorems of calculus, transcendental functions, integration techniques, sequences, series. This course covers fewer topics than AK/AS/SC/MATH 1310 3.0, but covers them in greater depth. It should be taken by all those planning an Honours degree in mathematics or a Specialized Honours degree in statistics.

Prerequisite: AS/SC/MATH 1000 3.0 or permission of the department.


**AS/SC/MATH 1013 3.0 Applied Calculus I.** The first half of this course deals with differentiation and the second half with integration. Topics include derivatives of algebraic and transcendental functions, indefinite integrals, techniques of integration, the definite integral and its interpretation as an area.

Prerequisite: AS/SC/MATH 1515 3.0 or OAC calculus.


**AS/SC/MATH 1014 3.0 Applied Calculus II.** Applications of differential and integral calculus (e.g. maxima and minima, areas, volumes of revolution, moments and centroids etc.), indeterminate forms, improper integrals, Taylor series, simple ordinary differential equations and an introduction to multivariable calculus.

Prerequisites: One of AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AK/AS/SC/MATH 1300 3.0, or, for non-science students only, six credits from AS/MATH 1530 3.0 and AS/SC/MATH 1550 6.0, AS/ECON 1530 3.0 and AS/ECON 1540 3.0.


**AS/SC/MATH 1016 1.0 Applied Mathematics Module I.** Designed for students in applied mathematics to complement and enrich the material in AS/SC/MATH 1013 3.0. The module treats the theory in greater depth, and explores extended applications and modelling. One lecture hour per week. One term. One credit.

Prerequisite: OAC calculus or AS/SC/MATH 1515 3.0.

Prerequisite or corequisite: AS/SC/MATH 1013 3.0.

Note: AS/SC/MATH 1016 1.0 must be taken within the first 60 credits of a student's program.

**AS/SC/MATH 1017 1.0 Applied Mathematics Module II.** Designed for students in applied mathematics to complement and enrich the material in AS/SC/MATH 1014 3.0. The module treats the theory in greater depth, and explores extended applications and modelling. One lecture hour per week. One term. One credit.

Prerequisites: AS/SC/MATH 1013 3.0; AS/SC/MATH 1016 1.0.

Prerequisite or corequisite: AS/SC/MATH 1017 1.0. Note: AS/SC/MATH 1017 1.0 must be taken within the first 60 credits of a student's program.

**AS/SC/MATH 1021 3.0 Linear Algebra I.** (formerly AS/SC/MATH 2021 3.0 — before 2001-2002) Linear equations, matrices, Gaussian elimination, determinants and vector spaces. This course covers material similar to that in AK/AS/SC/MATH 2221 3.0 but at a more advanced level. Required in Specialized Honours statistics and in all Applied Mathematics, Mathematics and Mathematics for Commerce programs except the BA Program in Mathematics for Commerce.

Prerequisite: One OAC mathematics course or equivalent.


**AS/SC/MATH 1025 3.0 Applied Linear Algebra.** Topics include spherical and cylindrical coordinates in Euclidean 3-space, general matrix algebra, determinants, vector space concepts for Euclidean n-space (e.g. linear dependence and independence, basis, dimension, linear transformations etc.), an introduction to eigenvalues and eigenvectors.

Prerequisite: OAC calculus and geometry.


**AS/SC/MATH 1090 3.0 Introduction to Logic for Computer Science.** The syntax and semantics of propositional and predicate logic. Applications to program specification and verification. Optional topics include set theory and induction using the formal logical language of the first part of the course.

Prerequisite: One OAC in mathematics or equivalent, or AK/MATH 1710 6.0.

Degree credit exclusion: This course may not be taken for degree credit by any student who has passed AK/AS/SC/MATH 4290 3.0.

**AS/SC/MATH 1131 3.0 Introduction to Statistics I.** Displaying and describing distributions; relations in categorical data; Simpson’s paradox and the need for design; experimental design and sampling design; randomization; probability laws and models; central limit theorem; statistical inference including confidence intervals and tests of significance; matched pairs; simulation.

Prerequisite: At least one OAC in mathematics or AS/SC/MATH 1510 6.0.

Degree credit exclusions: AS/SC/MATH 1000 3.0, AS/SC/MATH 1013 3.0, AK/AS/SC/MATH 1300 3.0, or, for non-science students only, six credits from AS/MATH 1530 3.0 and AS/MATH 1540 3.0, AK/AS/MATH 1550 6.0, AS/ECON 1530 3.0 and AS/ECON 1540 3.0.


**AS/SC/MATH 1505 6.0 Mathematics for the Life and Social Sciences.** A presentation of the elements of single-variable differential and integral calculus, elementary linear algebra and introductory probability and statistics. This course is designed to provide a comprehensive mathematical background for students of the biological and social sciences. Emphasis is placed on basic mathematical skills and their applications.

Prerequisite: At least one OAC in mathematics or AS/SC/MATH 1510 6.0.


**AS/SC/MATH 1510 6.0 Fundamentals of Mathematics.** Designed for the student whose mathematical background is weak and who wishes to take further courses in mathematics. Topics include algebraic equations and inequalities; simple sequences and series; analytic geometry; trigonometry; functions, including algebraic, exponential, logarithmic and trigonometric functions.

Degree credit exclusions: AS/MATH 1520 6.0. May not be taken by any student who has
taken or is currently taking another university course in mathematics or statistics except for AS/SC/MATH 1500 3.0 or AS/SC/MATH 1515 3.0.

AS/SC/MATH 1515 3.0 Introduction to Calculus. Elements of differential calculus, antiderivatives and integrals, with applications. Designed for students who have not taken (or have performed inadequately in) OAC calculus.

Prerequisite: One OAC in mathematics or AS/SC/MATH 1510 6.0 or equivalent, or permission of the department. This course may be taken at the same time as the second half of AS/SC/MATH 1510 6.0.

Degree credit exclusions: AS/SC/MATH 1500 3.0. May not be taken by any student who has taken or is currently taking another university course in calculus.

AS/SC/MATH 1530 3.0 Introductory Mathematics for Economists I. This course introduces and develops topics in differential calculus, integral calculus and their applications in economics. This course or equivalent is required for all economics majors or minors; it also satisfies the mathematics requirement for the Schulich School of Business. It is suitable for the bachelor Program in Mathematics for Commerce, but should not be taken by those who intend to major in any other Program in Mathematics or Statistics or in Computer Science.

Cross-listed to: AS/ECON 1530 3.0.

Prerequisite: AS/SC/MATH 1515 3.0 or OAC calculus or equivalent.

Prerequisite or corequisite: AS/ECON 1000 3.0 or AS/ECON 1010 3.0.

Degree credit exclusions: AS/SC/MATH 1010 3.0, AK/AS/SC/MATH 1300 3.0, AS/SC/MATH 1505 6.0, AS/SC/MATH 1530 3.0, AS/SC/MATH 1540 3.0, AS/ECON 1530 3.0, AS/ECON 1540 3.0. This course may not be taken by any student who has taken or is taking AK/AS/SC/MATH 1025 3.0 or AS/SC/MATH 2221 3.0 or equivalent.

AS/SC/MATH 1580 3.0 The Nature of Mathematics I. Designed to create a positive attitude towards mathematics through an examination of topics relevant to the study of mathematics at the elementary school level. Topics include numerical systems, number theory, nature of algebra and geometry. Intended primarily, but not exclusively, for education students in the primary/junior stream.

Degree credit exclusion: Not open to any student who has taken or is taking another university mathematics course unless permission of the course coordinator is obtained.

AS/SC/MATH 1581 3.0 Business Mathematics I. This course is an introduction to interest rates (simple, compound), annuities (ordinary, due, deferred), amortization (mortgages, other debts), sinking funds, bonds (face value, bond rate, price, yield rate) and depreciation (straight line, constant percentage).

Prerequisite: Ontario Grade 12 mathematics or equivalent.

Degree credit exclusion: AK/AS/MATH 2580 6.0.

AS/SC/MATH 1590 3.0 The Nature of Mathematics II. A continuation of some of the themes explored in AS/SC/MATH 1580 3.0. Further topics include elements of probability and statistics, the nature of computers, elementary set theory and logic.

Prerequisite: AS/SC/MATH 1580 3.0 or permission of the course coordinator.

Degree credit exclusion: Not open to any student who has taken or is taking another university mathematics course (except AS/SC/MATH 1580 3.0) unless permission of the course coordinator is obtained.


Prerequisite: AS/SC/MATH 1010 3.0 or permission of the department.


AS/SC/MATH 2015 3.0 Applied Multivariate and Vector Calculus. Topics covered include partial derivatives; grad, div, curl and Laplacian operators; line and surface integrals; theorems of Gauss and Stokes; double and triple integrals in various coordinate systems; extrema and Taylor series for multivariate functions.

Prerequisite: One of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AK/AS/SC/MATH 1310 3.0 or AS/SC/MATH 1505 6.0 plus permission of the course coordinator.


AS/SC/MATH 2018 1.0 Applied Mathematics Module III. Designed for students in applied mathematics to complement and enrich material in AS/SC/MATH 2015 3.0. The module treats the theory in greater depth, and explores extended applications and modeling. One lecture hour per week. One term. One credit.

Prerequisites: AS/SC/MATH 1014 3.0; AS/SC/MATH 1017 1.0.

Prerequisite or corequisite: AS/SC/MATH 2015 3.0.

Note: AS/SC/MATH 2018 1.0 must be taken within the first 90 credits of a student's program.

AK/AS/SC/MATH 2022 3.0 Linear Algebra II. Inner product spaces, linear transformations, eigenvalues, diagonalization, least squares, quadratic forms and Markov chains. Similar to AS/SC/MATH 2222 3.0 but at a more advanced level. Required in Specialized Honours applied mathematics, Specialized Honours statistics and in all Mathematics and Mathematics for Commerce programs except the BA Program in Mathematics for Commerce.

Prerequisite: AK/AS/SC/MATH 1021 3.0 or AS/SC/MATH 2021 3.0 or permission of the course coordinator.

Degree credit exclusion: AK/AS/SC/MATH 2222 3.0.

AK/AS/SC/MATH 2030 3.0 Elementary Probability. Introduction to the theory of probability as preparation for further study in either mathematical or applied probability and statistics. Topics include probability spaces, conditional probability, independence, random variables, distribution functions, expectation, Chebyshev's inequality, common distributions, moment-generating functions and limit theorems.

Prerequisite: One of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AK/AS/SC/MATH 1310 3.0.

AS/SC/MATH 2041 3.0 Symbolic Computation Laboratory I. An introduction to symbolic computing in the Maple environment. Topics from single-variable differential and integral calculus, including simple ordinary differential equations.
are covered. Both mathematical understanding and applications are emphasized. Three lecture hours, open laboratory hours. One term. Three credits.

Prerequisites: AK/AS/SC/COSC 1540 3.0 or equivalent computing experience; AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AK/AS/SC/MATH 1310 3.0.

AS/SC/MATH 2042 3.0 Symbolic Computation Laboratory II. Advanced symbolic computing with Maple. Topics from linear algebra, differential equations, multivariate calculus, integral theorems, are covered. Both mathematical understanding and applications are emphasized. Three lecture hours, open laboratory hours. One term. Three credits.

Prerequisites: AS/SC/MATH 2041 3.0; AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AK/AS/SC/MATH 2130 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AK/AS/SC/MATH 2221 3.0.

Prerequisites or corequisites: AK/AS/SC/MATH 2270 3.0; AK/AS/SC/MATH 2220 3.0 or AK/AS/SC/MATH 2222 3.0.

AK/AS/SC/MATH 2090 3.0 Applications of Logic to Discrete Mathematics. A continuation of AK/AS/SC/MATH 1090 3.0, this course uses formal logic to study topics in discrete mathematics, including sets, relations, functions, induction, the integers. Optional topics include program specification, sequences, recurrence relations.

Prerequisite: AK/AS/SC/MATH 1090 3.0 taken after Summer 1998.

AK/AS/SC/MATH 2131 3.0 Introduction to Statistics II. This course is a continuation of AK/AS/SC/MATH 2030 3.0; one of AS/SC/MATH 1010 3.0, AS/SC/MATH 2030 3.0 or AK/AS/SC/MATH 2310 3.0.

Degree credit exclusion: Not open to any student who has passed or is taking AK/AS/SC/MATH 3131 3.0.

Note: Computer/Internet use may be required to facilitate course work.

AK/AS/SC/MATH 2221 3.0 Linear Algebra with Applications I. Systems of linear equations, linear and affine subspaces of Euclidean n-space, the Gauss-Jordan algorithm, matrices and matrix algebra, determinants, vector space concepts for Euclidean n-space (linear dependence and independence, basis, dimension etc.), various applications.

Prerequisite: OAC algebra or any university mathematics course.


AK/AS/SC/MATH 2222 3.0 Linear Algebra with Applications II. Linear transformations and their representation by matrices, change of basis and similarity, eigenvalues and eigenvectors, diagonalization, inner product spaces, orthogonality, the Gram-Schmidt algorithm, least squares approximations, abstract vector spaces, various applications.

Prerequisite: AK/AS/SC/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AK/AS/SC/MATH 2221 3.0.

Degree credit exclusion: AK/AS/SC/MATH 2220 3.0.

AS/SC/MATH 2280 6.0 An Introduction to Combinatorics. Basic graph theory, permutations, combinations, inclusion-exclusion principle, recurrence relations, generating functions, occupancy problems, application to probability theory, geometry of the plane, maps on the sphere, colouring problems, finite structures, systems of distinct representatives, existence problems, magic squares, Latin squares.

Prerequisite: One OAC in mathematics or equivalent.

AK/AS/SC/MATH 2270 3.0 Differential Equations. Introduction to differential equations, including a discussion of the formation of mathematical models for real phenomena; solution by special techniques; applications; linear equations; solutions in series; other topics if time permits.

Prerequisites: AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AK/AS/SC/MATH 2310 3.0; AK/AS/SC/MATH 1021 3.0 or AS/SC/MATH 1025 3.0 or AS/SC/MATH 2021 3.0 or AK/AS/SC/MATH 2221 3.0.

AS/SC/MATH 2280 3.0 The Mathematical Theory of Interest. Topics include measurement of interest, annuities, amortization of loans, bonds, sinking funds and depreciation. The course is at a level which will prepare students for the interest theory portion of the Society of Actuaries examinations.

Prerequisite: AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AK/AS/SC/MATH 1310 3.0.

Degree credit exclusions: AK/AS/SC/MATH 2580 6.0, AS/SC/MATH 2581 3.0.

AK/AS/SC/MATH 2310 3.0 Calculus of Several Variables with Applications. Vector functions, partial derivatives, gradient, multiple integrals, line integrals, optimization, applications.

Prerequisites: AS/SC/MATH 1010 3.0 or AS/SC/MATH 1014 3.0 or AK/AS/SC/MATH 1310 3.0.


AK/AS/SC/MATH 2320 3.0 Discrete Mathematical Structures. Algebraic and combinatorial structures required in computer science and other disciplines. Review of sets; induction; combinatorics; graph theory, trees; big Oh-notation, complexity of algorithms; recursive definitions, recurrence relations; posets; congruence relations. This course emphasizes analysis, problem solving and proofs.

Prerequisites: AK/AS/SC/MATH 1190 3.0, or AK/AS/SC/MATH 1090 3.0, or any 2000-level MATH course without second digit 5. Students who have not taken AK/AS/SC/MATH 1190 3.0 or AK/AS/SC/MATH 2090 3.0 are advised to review set theory, functions, relations and induction proofs, before the course begins.

AK/AS/SC/MATH 2500 3.0 An Introduction to the Basic Practice of Statistics. This course provides an introduction to the concepts of statistics with an emphasis on developing a critical attitude towards the use and misuse of statistics in business, health sciences and other areas.


Note: Computer/Internet use may be required to facilitate course work.


Prerequisite: Ontario Grade 12 advanced mathematics.


AK/AS/SC/MATH 2570 3.0 Elementary Statistics II. Binomial distribution, sampling distribution of sample proportions and means, central limit theorem. Confidence intervals, tests and decisions, abuse of tests. Inference for a single mean, comparing two means, and for spread. Contingency tables. Simple regression and basic analysis of variance.

Prerequisite: AK/AS/SC/MATH 2560 3.0 or AK/AS/SC/MATH 1131 3.0.


AK/AS/SC/MATH 2580 6.0 Mathematics of Investment and Actuarial Science. Theory of interest; annuities certain; amortization and sinking funds; evaluation of bonds and other investments; depreciation, depletion and capital cost; insurance, including mortality tables, principles of life annuities, premiums and reserves.

Prerequisite: One full university mathematics course.
Degree credit exclusions: AS/MATH 1581 3.0, AS/SC/MATH 2280 3.0, AS/MATH 2581 3.0.

AS/MATH 2581 3.0 Business Mathematics II. Spreadsheets and their application to business mathematics; deepening of topics in Business Mathematics I, including continuous compound interest, perpetuities, annuities where payments vary, callable bonds, bond yield rate, capital budgeting; mortality tables, life annuities, life insurance.

Prerequisites: AS/MATH 1581 3.0; AK/AS/SC/COSC 1520 3.0 or permission of the course coordinator.
Degree credit exclusions: AS/MATH 2280 3.0, AK/AS/MATH 2580 6.0.

AK/AS/SC/MATH 3010 3.0 Vector Integral Calculus. Integrability of continuous functions over suitable domains, iterated integrals and Fubini's theorem, counterexamples, change of variables, Jacobian determinants, polar and spherical coordinates, volumes, vector fields, divergence, curl, line and surface integrals, Green's and Stokes' theorems, differential forms, general Stokes' theorem.

Prerequisite or corequisite: AK/AS/SC/MATH 2310 3.0 or AK/AS/SC/MATH 2015 3.0; or AS/SC/MATH 2015 3.0, AK/AS/SC/MATH 2041 3.0.

AK/AS/SC/MATH 3020 6.0 Algebra I. Introduction to the basic concepts of abstract algebra, with applications: groups (cyclic, symmetric, Lagrange's theorem, quotients, homomorphism theorems); rings (congruences, quotients, polynomials, integral domains, principal-ideal and unique-factorization domains); fields (field extensions, constructions with ruler and compasses, coding theory).

Prerequisite: AK/AS/SC/MATH 2022 3.0 or AK/AS/SC/MATH 2222 3.0.


Prerequisites: AK/AS/SC/MATH 2131 3.0 or permission of the course director; AK/AS/SC/MATH 2022 3.0 or AK/AS/SC/MATH 2222 3.0.


Prerequisite: AS/MATH 3033 3.0 or AK/AS/MATH 3330 3.0.
Degree credit exclusion: Not open to any student who has passed or is taking AS/MATH 4130G 3.0.

Note: Computer/Internet use may be required to facilitate course work.

AK/AS/SC/MATH 3050 6.0 Introduction to Geometries. Analytic geometry over a field with vector and barycentric coordinate methods, affine and projective transformations, inverse geometry, foundations of Euclidean and non-Euclidean geometry, applications throughout to Euclidean geometry.

Prerequisite: AK/AS/SC/MATH 2222 3.0 or AK/AS/SC/MATH 2222 3.0 or permission of the course coordinator.

AK/AS/SC/MATH 3090 3.0 Computational Mathematics. Modelling (discrete and continuous, deterministic and stochastic) and practical solutions to general categories of applied problems. Case studies of solutions through modelling and representation of data. Implementation, numerical considerations, efficiency, and application of numerical algorithms. Three lecture hours per week. One term. Three credits.


AS/SC/MATH 3100 3.0 Famous Problems in Mathematics. An attempt to foster an appreciation of the history, the personalities and some of the content of different areas of mathematics, by means of a study of some specific problems which have exercised the minds of mathematicians.

Prerequisites: At least 12 credits from 2000-level MATH courses or course combinations: (1) AS/SC/MATH 2010 3.0, (2) AS/SC/MATH 3110 3.0, (3) AK/AS/SC/MATH 2310 3.0 or AS/SC/MATH 2015 3.0.


Prerequisite: AK/AS/SC/MATH 1310 3.0 or AS/SC/MATH 1014 3.0.

Prerequisites or corequisites: AK/AS/SC/MATH 2310 3.0 or AS/SC/MATH 2015 3.0; or AS/SC/MATH 1021 3.0 or AS/SC/MATH 2021 3.0 or AK/AS/SC/MATH 2222 3.0; or AK/AS/SC/COSC 1540 3.0 or AK/AS/SC/COSC 1020 3.0 or equivalent.

AK/AS/SC/MATH 3170 6.0 Operations Research I. A study of linear programming: transportation problems, including network flows, assignment problems and critical path analysis; integer programming; dynamic programming and an introduction to stochastic models. Application to a set of problems representative of the field of operations research.

Prerequisites: AK/AS/SC/MATH 1021 3.0 or AS/SC/MATH 2015 3.0 or AS/SC/MATH 2021 3.0 or AK/AS/SC/MATH 2222 3.0; or AK/AS/SC/COSC 1540 3.0 or AK/AS/SC/COSC 1020 3.0 or equivalent.

AK/AS/SC/MATH 3190 3.0 Set Theory and Foundations of Mathematics. The following topics are covered: paradoxes in naive set theory; functions and relations, transfinite numbers, their ordering and their arithmetic; well-ordered sets and ordinal numbers; Zorn's lemma; an introduction to axiomatic set theory.

Prerequisite: Six credits from 2000-level MATH courses without second digit 5.


Prerequisite: At least one of the following four courses or course combinations: (1) AS/SC/MATH 2010 3.0, (2) AK/AS/SC/MATH 3110 3.0, (3) AK/AS/SC/MATH 2310 3.0 and AS/SC/MATH 1010 3.0, (4) AS/SC/MATH 2015 3.0 and AS/SC/MATH 1010 3.0.


Prerequisites: One of AS/SC/MATH 1010 3.0, AS/SC/MATH 1014 3.0, AK/AS/SC/MATH 1310 3.0.
Cours es of Instr uction


Degree credit exclusion: AK/AS/SC/COSC 3121 3.0.


Cross-listed to: AK/AS/SC/COSC 3122 3.0.

Prerequisites: AK/AS/SC/MATH 2270 3.0; AS/SC/MATH 3241 3.0 or AK/AS/SC/COSC 3121 3.0.

Degree credit exclusion: AK/AS/SC/COSC 3122 3.0.

AK/AS/SC/MATH 3260 3.0 Introduction to Graph Theory. Introductory graph theory with applications. Graphs, digraphs, Eulerian and Hamiltonian graphs. The travelling salesman. Path algorithms; connectivity; trees; planarity; colourings; scheduling; minimal cost networks. Tree searches and sortings, minimal connectors and applications from physical and biological sciences.

Prerequisite: At least six credits from 2000-level MATH courses without second digit 5.

AS/SC/MATH 3271 3.0 Partial Differential Equations. Partial differential equations of mathematical physics and their solutions in various coordinates, separation of variables in Cartesian coordinates, application of boundary conditions; Fourier series and eigenfunction expansions; generalized curvilinear coordinates; separation of variables in spherical and polar coordinates.

Prerequisites: AK/AS/SC/MATH 2270 3.0; AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AK/AS/SC/MATH 2310 3.0; AK/AS/SC/MATH 3010 3.0 is also desirable, though not essential, as prerequisite for students presenting AS/SC/MATH 2010 3.0.

AS/SC/MATH 3272 3.0 Special Functions. The special functions of mathematical physics: Bessel functions, Legendre functions, Gamma function, Hermite functions, Laguerre functions, Chebyshev polynomials, hypergeometric and confluent hypergeometric functions; boundary value problems, heat flow, wave motion in Cartesian and polar coordinates; Laplace and Fourier transforms.

Prerequisite: AS/SC/MATH 3271 3.0 or permission of the course coordinator.

AS/SC/MATH 3280 6.0 Actuarial Mathematics. Deterministic and stochastic models for contingent payments. Topics include survival distributions, life tables, premiums and reserves for life insurance and annuities, multiple life contracts, multiple decrement theory.

Prerequisite: AS/SC/MATH 2280 3.0.

Prerequisite or corequisite: AK/AS/SC/MATH 2131 3.0.

AK/AS/SC/MATH 3330 3.0 Regression Analysis. Simple regression analysis, multiple regression analysis, matrix form of the multiple regression model, estimation, tests (t- and F-tests), multicollinearity and other problems encountered in regression, diagnostics, model building and variable selection, remedies for violations of regression assumptions.


AK/AS/SC/MATH 3410 3.0 Complex Variables. Analytic functions, the Cauchy-Riemann equations, complex integrals, the Cauchy integral theorem, maximum modulus theorem. Calculations of residues and applications to definite integrals, two-dimensional potential problems and conformal mappings.

Prerequisites: AS/SC/MATH 2010 3.0 or AS/SC/MATH 2015 3.0 or AK/AS/SC/MATH 2310 3.0. (AK/AS/SC/MATH 3010 3.0 is also recommended as a prerequisite for students who have taken AS/SC/MATH 2010 3.0.)

AK/AS/SC/MATH 3430 3.0 Sample Survey Design. Principal steps in planning and conducting a sample survey. Sampling techniques including simple random sampling, stratified random sampling, cluster sampling and sampling with probabilities proportional to size. Estimation techniques including difference, ratio and regression estimation.

Prerequisites: AK/AS/SC/MATH 2131 3.0 or AK/AS/SC/MATH 3330 3.0.

AS/SC/MATH 3450 3.0 Introduction to Differential Geometry. Curves and surfaces in 3-space, tangent vectors, normal vectors, curvature, introduction to topology and to manifolds.

Prerequisites: AK/AS/SC/MATH 3010 3.0; AK/AS/SC/MATH 2222 3.0; or permission of the course coordinator.

Degree credit exclusion: AK/AS/SC/MATH 4250 6.0.

AS/MATH 3500 6.0 Mathematics in the History of Culture. An introduction to the history of mathematical ideas from antiquity to the present, with emphasis on the role of these ideas in other areas of culture such as philosophy, science and the arts.

Prerequisite: Six credits in university-level mathematics (other than AS/SC/MATH 1500 3.0, AS/SC/MATH 1510 6.0 or AS/SC/MATH 1515 3.0) is strongly recommended.

AS/SC/MATH 4000 3.0/4000 6.0 Individual Project. A project of a pure or applied nature in mathematics or statistics under the supervision of a faculty member. The project allows the student to apply mathematical or statistical knowledge to problems of current interest. A report is required at the conclusion of the project.

Prerequisites: Open to all students in Honours programs in the Department of Mathematics and Statistics. Permission of the program director is required. Applied mathematics students can enrol only after they have completed the core program in applied mathematics.


Prerequisite: AK/AS/SC/MATH 3210 3.0 or permission of the course coordinator.

AK/AS/SC/MATH 4020 6.0 Algebra II. Continuation of Algebra I, with applications: groups (finitely generated Abelian groups, soluble groups, simplicity of alternating groups, group actions, Sylow's theorems, generators and relations); fields (splitting fields, finite fields, Galois theory, solvability of equations); additional topics (lattices, Boolean algebras, modules).

Prerequisite: AK/AS/SC/MATH 3020 6.0 or permission of the course coordinator.

Degree credit exclusion: AS/SC/MATH 4241 3.0.


Prerequisite: AK/AS/SC/MATH 2030 3.0.

AK/AS/SC/MATH 4033 3.0 Applications of Mixed Models. Theory and applications of mixed models and extensions: theoretical formulation, hierarchical models, generalized least-squares, empirical Bayes, shrinkage estimators, fitting algorithms, unbalanced nested structures, longitudinal analysis, non-linear models, categorical dependent variables.

Prerequisites: AK/AS/SC/MATH 3330 3.0 or AK/AS/SC/MATH 3033 3.0 or permission of the course coordinator.

Note: SAS and Splus computing environments will be used to facilitate course work.

AK/AS/SC/MATH 4034 3.0 Data Mining. This course will review some of the principal methods used for data mining, with the goal of placing them in common perspective and providing a unifying overview.
Courses of Instruction

AS/SC/MATH 4100 3.0 Topics in Mathematical Education. This course consists of a series of presentations, by the students, of mathematical topics chosen in consultation with the instructor. Suitability of the material for presentation in high schools is discussed. Preerequisite: Permission of the course coordinator.

AS/SC/MATH 4110 3.0 Topics in Analysis. Possible topics include special functions, integral transforms, Fourier series, divergent series, asymptotic expansions, approximation theory, ordinary differential equations, partial differential equations, calculus of variations, calculus on manifolds, introduction to functional analysis, difference equations. Preerequisite: Permission of the course coordinator.

AS/SC/MATH 4120 3.0 Topics in Algebra. One or two topics which may be chosen from the following: category theory, commutative algebra, infinite Abelian groups, non-associative algebras, advanced linear algebra, presentation theory, representations of finite groups, universal algebra. Prequisite: Permission of the course coordinator.

AS/SC/MATH 4130 3.0 Topics in Probability and Statistics. One or two topics which may be chosen from the following: statistical decision theory, statistical inference, sequential analysis, information theory, large sample theory, design of experiments, stochastic processes, time series. Prequisites: Permission of the course coordinator.

AS/SC/MATH 4134 3.0 Biostatistics. This course provides students with an introduction to the statistical methods which are commonly used in medical research and epidemiology. Prerequisites: AK/AS/SC/MATH 3034 3.0 and AK/AS/SC/MATH 3430 3.0 or permission of the course director. 

Note: SAS and Splus computing environments will be used to facilitate course work.

AS/SC/MATH 4140 3.0 Topics in Number Theory. Topics chosen from quadratic diophantine equations and infinite continued fractions, elements of algebraic number theory, p-adic numbers, other topics selected according to student interest. Prerequisite: Permission of the course coordinator.


AS/SC/MATH 4150 3.0 Topics in Geometry. One or two topics which may be chosen from the following: projective geometry, algebraic geometry, geometrical algebra, finite geometries, differential geometry, Riemannian geometry, discrete applied geometry. Prerequisites: AS/SC/MATH 2022 3.0 or AS/SC/MATH 2222 3.0; six credits from 3000-level MATH courses without second digit 5; or permission of the course coordinator.

AS/SC/MATH 4160 3.0 Combinatorial Mathematics. Topics from algebra of sets, permutations, combinations, occupancy problems, partitions of integers, generating functions, combinatorial identities, recurrence relations, inclusion-exclusion principle, Polya's theory of counting, permanents, systems of distinct representatives, Latin rectangles, block designs, finite projective planes, Steiner triple systems. Prerequisites: AS/SC/MATH 2022 3.0 or AS/SC/MATH 2222 3.0; six credits from 3000-level MATH courses without second digit 5; or permission of the course coordinator.

AS/SC/MATH 4170 6.0 Operations Research II. Selected topics from game theory, decision theory, simulation, reliability theory, queuing theory, non-linear programming, classification, pattern-recognition and prediction. Each chapter contains an optimization problem and methods and algorithms for solving it. The course is rich in examples. Prerequisites: AS/SC/MATH 2010 3.0 or AS/SC/ MATH 2015 3.0 or AK/AS/SC/MATH 2310 3.0; AK/AS/SC/MATH 2030 3.0; AK/AS/SC/MATH 3170 6.0; or permission of the course coordinator.

Degree credit exclusion: AS/SC/MATH 4570 6.0.

AS/SC/MATH 4230 3.0 Non-Parametric Methods in Statistics. Order statistics; general rank statistics; one-sample, two-sample and k-sample problems; Kolmogorov-Smirnov statistics; tests of independence and relative efficiencies. Prerequisite: AK/AS/SC/MATH 3131 3.0; AK/AS/SC/MATH 3132 3.0 is recommended but not required.

AS/SC/MATH 4231 3.0 Robust Statistics. This course provides students with an introduction to robust statistics. Basic robustness concepts and robust estimators will be covered. Prerequisites: AK/AS/SC/MATH 3131 3.0, either AK/AS/SC/MATH 3033 3.0 or AK/AS/SC/MATH 3303 3.0 or permission of the course director. Note: SAS and Splus computing environments will be used to facilitate course work.

AS/SC/MATH 4240 3.0 Independent Studies in Applied Mathematics. Independent studies under the direction of a faculty supervisor. Areas: applied and numerical analysis, discrete applied mathematics, operations research, mathematical physics, mathematical biology, mathematical modelling. The area is restricted by the availability of a supervisor. Prerequisites: Permission of the applied mathematics program director; restricted to students who have completed the Applied Mathematics Program core. Note: Faculty of Arts students should see the Faculty of Arts section of this Calendar for regulations governing independent reading courses.


Degree credit exclusion: AK/AS/SC/MATH 4020 6.0.

What is the course description for AS/SC/MATH 4431 3.0 Probability Models? It introduces the theory and applications of several kinds of probabilistic models, including renewal theory, branching processes and martingales. Additional topics may include stationary processes, large deviations, or models from the sciences.

What are the prerequisites for AS/SC/MATH 4470 3.0 Gas and Fluid Dynamics? The prerequisites are AK/AS/SC/MATH 2030 3.0 or permission of the course director.

What is the degree credit exclusion for AS/SC/MATH 4470 3.0 Gas and Fluid Dynamics? It is AS/SC/MATH 4430 3.0 Stochastic Processes.

What are the corequisites for AS/SC/MATH 4430 3.0 Stochastic Processes? The corequisites are a MATH course at the 3000 level or higher, without second digit 5.
1000-Level Courses

AS/HUMA 1950 9.0 Concepts of the "Male" and "Female" in the West. An examination of the origins of, and the interrelationships among, gender, male and female concepts and roles through myth, literature, art, and artifacts from various Western cultures, past and present.

Degree credit exclusion: AS/HUMA 1950 6.0.

AS/HUMA 2960 9.0 The Body in Western Culture. From an interdisciplinary perspective this course explores the attitudes of Western culture to the body and to entities such as soul, spirit and mind which have been contrasted with it.

AS/SOSC 1130 9.0 International Migration. The course examines why people leave their native lands and what becomes of them in the countries to which they immigrate, with particular reference to the impact of the immigrant on the host country, using Canadian examples.


AS/SOSC 1140 9.0 Self, Culture and Society: The Problem of Personal Identity. The course concerns the development of concepts of culture by which individuals seek to understand themselves and the world about them, using materials from anthropology, sociology and philosophy, and with the aim of developing a critique of our own situation.

Degree credit exclusion: AS/SOSC 1140 6.0.

AS/SOSC 1188 9.0 Women's Roles. The intersection of gender and culture is considered, with emphasis on women's issues. We explore the role of women in Canada and elsewhere, assessing how nation and culture shape gender discourses, and we examine aboriginal issues at home and abroad.

AS/SOSC 1200 9.0 Canadian Problems. The conceptual framework that has been developed out of this experience is used to examine a number of contemporary problems, selected each year on the basis of their topicality and relevance to a comprehensive understanding of current Canadian public policy.

Degree credit exclusion: AS/SOSC 1200 6.0.

AS/SOSC 1350 9.0 Women and the Law. This course explores the role of gender within the context of the legal system. Current issues that highlight the relationship between gender and law are examined by analyzing both legislation and case law. Topics include: divorce, rape and equal pay.

Degree credit exclusion: AS/SOSC 1350 6.0.

AS/SOSC 1520 9.0 Markets and Democracy: The Development of Industrial Society. The development of industrial capitalism has entailed profound changes in ways of living. The course will consider the spread of the market economy, the industrialization of production and the associated transformation of social and political institutions and ideas.

Degree credit exclusions: AS/SOSC 1520 6.0, AS/SOSC 2510 6.0.

AS/SOSC 1535 9.0 Societies and Economic Systems. This course examines the 20th century's two dominant economic systems: Western capitalism and eastern European socialism. It provides a comprehensive understanding of the theory and practice of both systems, and discusses movement between them.

AS/SOSC 2150 9.0 Families in Crisis: Issues of Health Environments and Poverty. This course examines the crisis of the contemporary family. We use the family therapy literature to examine the crisis within the family system; and we also use the critical perspectives of Marxism, psychoanalysis and feminism to understand the position of the family in the surrounding social world.

Degree credit exclusions: AS/SOSC 2150 6.0, AS/SCI 3660 6.0, AS/SOSC 3150 6.0.

AS/SOSC 2200 9.0 Sovereignty and Democracy: Canada in the New Global Economy. An introduction to the Program in Canadian Studies. A critical assessment of the body of knowledge on Canada as it has developed in selected disciplines. Works of various scholars are examined to illustrate approaches used.

Degree credit exclusion: AS/SOSC 2200 6.0.

Music – Fine Arts

Department Office: 225 Winters College, 416-736-5186
Chair of the Department: M. Coghlan
Professors: D. Mott, C. Petrowska-Quilico, T. Sankaran
Professors Emeriti: A. Clarkson, J. Tenney
Associate Professors: R. Bowman, M. Coghlan, D. Lidov, C. Sokol, P. Wait, R. Witmer
Associate Professors Emeriti: R.S. Beckwith, J. Gittens, P. Werren, P. Wait, R. Witmer

Programs of Study

The mandate of our students and faculty is to make and share music and to acquire, develop and disseminate musical knowledge. We understand musical study as interacting with nearly all studies pursued in the University — those of the humanities and the other fine arts, the social and natural sciences and the professions. From its inception, the Music Department has emphasized the study and performance of contemporary music in all its diversity, while bringing to bear a wide range of historical and social perspectives on the music of other times and places.

Students who major in music may pursue the BA, the BA Honours or BFA Honours degree. These degree options address both academic and practical concerns, combining the knowledge and skills needed for professional work in music with experience that will stimulate lifelong musical and personal growth. Undergraduate studies include courses in performance, composition, music history and ethnology, theory and pedagogy, with the emphasis largely depending on the student's own interests and abilities. Many of these courses are also available to non-majors, with opportunities for participation in various performances and musical events on and off campus organized by members of the department.

Both the BA Honours and BFA Honours degree programs comprise a total of 120 credits and may be completed in four years of full-time study or over a longer period of part-time study. The major in Music may be combined with a second major in the Faculty of Arts, or with a minor in the Faculties of Arts, Environmental Studies, Fine Arts or Pure and Applied Science. A five-year program leading to two degrees (the BA Honours or BFA Honours in music and the bachelor of education degree) is also available. A minor in music may be pursued by qualified honours degree students in the Faculties of Arts, Environmental Studies, Fine Arts or Pure and Applied Science. Students may apply to the BA (90-credit) degree in music at the end of their first year of study. Completion of this degree forms a strong basis for further studies in fields such as music therapy, arts administration and management, music journalism, music marketing, cultural tourism, community arts and cultural management. For students interested in teaching at the primary, junior and intermediate levels, a BA and a BEd can be completed in four years, rather than five, as currently with the BA or BFA Honours.

Admission to the department is by audition. Further information on audition evaluations, admissions, degree requirements and Faculty of Fine Arts regulations may be found in the Calendar.

In the area of performance, a qualified student may select one or more of a number of courses including chamber ensembles in Western art music (piano, percussion, winds, strings, voice, guitar), jazz, world music ensembles and contemporary music both notated and improvised. Each course entails ensemble workshops, study of the history and literature of the instruments, and attention to individual problems of performance. Performance experience in large ensembles is provided by the choir, jazz orchestra, jazz choir, wind symphony and world music chorus.
In the area of composition, instruction is given in the skills of writing in score, arranging and orchestration. In addition, fully equipped digital and MIDI studios provide facilities for learning all phases of the composition and production of music. All music majors complete a sequence of foundational courses which equips them with essential concepts and practical skills in ear-training, sight-singing, rhythm, theory and awareness of the social, cultural and historical contexts of music. These requirements include FA/MUSI 1000 6.0, FA/MUSI 1200 9.0, FA/MUSI 2200 6.0, FA/MUSI 2201 3.0 and FA/MUSI 2202 3.0. A student may be exempted from one or more of those courses by passing proficiency exams; otherwise, students who do not maintain enrolment in the foundation courses scheduled for their first and second years may not be enrolled in performance and/or composition courses. These foundation courses are prerequisite for all the department's upper-level offerings for majors, and both full and part-time students must complete them within their first 60 credits. All Honours music majors must complete 30 upper-level music credits (at or above the 3000 level), including at least 18 credits in studies courses for the BA Honours degree, and at least 12 credits in studies courses and at least 12 credits in studio courses for the BFA Honours degree. (See the lists of courses below.)

In addition to courses in music, the Bachelor's, BA Honours and BFA Honours degrees require 18 general education credits, and 12 credits from other departments in fine arts.

For degree credit, music courses are classified as follows:

### Non-Major Courses (not open to music majors or minors)
- FA/MUSI 1510 6.0, 1520 6.0, 1530 6.0, 1540 6.0, 1550 6.0
- FA/MUSI 1610 6.0
- FA/MUSI 1200 9.0, FA/MUSI 1201 3.0
- FA/MUSI 2200 6.0, FA/MUSI 2201 3.0 and FA/MUSI 2202 3.0 (All other 1000- and 2000-level music courses are counted as electives.)

### Foundation Courses
- FA/MUSI 1000 6.0, 1200 9.0, 2200 6.0, 2201 3.0, 2202 3.0
- FA/MUSI 1510 6.0, 1520 6.0, 1530 6.0, 1540 6.0, 1550 6.0 (In addition, many of the courses listed below are available to non-majors.)

### Upper-Level Studies Courses

Note: Some courses involve additional ancillary fees. Consult the department's supplementary calendar for details.

### Courses in Music

**FA/MUSI 1000 6.0 Workshop in Musicianship** I. An intensive course designed to develop musical sensitivity, imagination and practical skills, through a variety of individual exercises in singing, playing, composing and listening. Required of all new majors. Available to students in fine arts cultural studies by entrance examination.

**FA/MUSI 1020 3.0/1020 6.0 Classical Performance: Individual Instruction.** This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their instrument. Open to majors and non-majors.
- A. Flute
- B. Oboe
- C. Clarinet
- D. Bassoon
- E. Saxophone
- F. French Horn
- G. Trumpet
- H. Trombone
- I. Tuba
- J. Percussion
- K. Guitar
- L. Piano
- M. Voice
- N. Violin
- O. Viola
- P. Cello
- Q. Double Bass
- R. Harp
- S. Euphonium

Prerequisite: Permission of the course director, by audition.

Corequisite: FA/MUSI 1020M 3.0 Voice or permission of the instructor.

**FA/MUSI 1029 3.0 Vocal Diction I.** Examines diction as it relates to performance within the tradition of classical voice. Students will receive practical instruction in classical vocal pronunciation, diction, articulation and correct vowel formation with an aim to developing the linguistic fluency and foreign language competency necessary for the vocal art in the western classical tradition.

Corequisite: FA/MUSI 1020M 3.0 Voice or permission of the instructor.

**FA/MUSI 1031 6.0 Piano Improvisation and Contemporary Styles.** Designed for pianists of all backgrounds interested in exploring a variety of improvisational practices and 20th-century techniques and styles. Students learn to develop a compositional orientation to improvisation which allows the free exploration and integration of materials and processes from all periods and cultures.

Prerequisite: Permission of the course director, by audition. Open to non-majors.

Corequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.
FA/MUSI 1032 6.0 Contemporary Musicianship and Improvisation. Designed to integrate musicianship training with work in composition and improvisation. Development of the skills, strategies and sensibilities required to achieve fluency in spontaneous solo and ensemble music making and the development and refining of one's own musical voice are among the main course objectives. Admission is by audition in September.

Prerequisite: Permission of the course director, by audition. Open to non-majors.

Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.

FA/MUSI 1042 3.0 Gamelan Orchestra. Group instruction in the technique and performance of Indonesian Gamelan repertoire. Rhythmic and melodic techniques are developed while performing on various gongs, metalophones, flutes and drums of the Gamelan Orchestra. Repertoire is memorized and ensemble performance practice is emphasized through public performance.

Note: Open to majors and non-majors.

FA/MUSI 1043 3.0 West African Drum Ensemble. Practical instruction in the performance practice and repertoires of various West African cultures including Ewe, Dagamba, Mandinka and other Mande people. The songs and basic dance movements integral to these traditions will also be studied.

Note: Open to majors and non-majors.

FA/MUSI 1044 3.0 Celtic Canadian Folk Ensemble. Practical instruction in several vernacular fiddle-based musical traditions of North America. Some knowledge of fiddle, guitar, piano, harmonica or tin whistle is an asset.

Prerequisite: Permission of the course director. No prior experience is necessary.

Note: Open to majors and non-majors.

FA/MUSI 1045 3.0 Klezmer Folk Ensemble. Practical performance instruction in the Klezmer musical tradition. Some knowledge of fiddle, guitar, piano or clarinet required. The course develops facility and repertoire in the improvisational styles associated with the Klezmer (Jewish wedding band) tradition of central Europe and the Middle East.

Prerequisite: Permission of the course director. No prior experience is necessary.

Note: Open to majors and non-majors.

FA/MUSI 1046 3.0 African-American Musics. Practical performance instruction in the African-American traditions of ragtime, blues, barrelhouse, boogie-woogie and stride piano styles. Students develop manual independence, rhythmic security, improvisation skills and stylistic awareness using repertoire chosen from the tradition. Both aural sources and written scores are consulted and used to recreate the music.

Prerequisite: Permission of the course director.

Note: Open to majors and non-majors with appropriate skill level in piano playing.

FA/MUSI 1047 3.0 Chinese Classical Ensemble. Practical and repertoire studies in traditional Chinese orchestral techniques (chin, erhu etc.).

Note: Open to majors and non-majors.

FA/MUSI 1048 3.0 Japanese Music. Practical and repertoire studies in traditional instrumental techniques (shakuhachi, koto etc.). Students concentrate on issues of performance such as tone colour, rhythmic accuracy and nuance, and ensemble performance.

Note: Open to majors and non-majors.

FA/MUSI 1049 3.0 Cuban Music. A performance oriented course dealing primarily with Cuban popular music styles. An in depth examination of various Afro-cuban traditional musics, which have had important influence on the popular styles, will also be presented.

Note: Open to majors and non-majors.

FA/MUSI 1050 6.0 Introduction to Jazz Performance. Improvisation and ensemble playing in the jazz idiom, intended for students with instrumental proficiency and musical literacy, and some experience in jazz performance.

Prerequisite: Permission of the course director, by audition. All aspirants can receive further information on auditions from the department office. Open to non-majors.

Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.

FA/MUSI 1051 6.0 Jazz Workshop I. A systematic approach to improvising and ensemble playing in the jazz idiom. The course is designed primarily for students with instrumental proficiency and basic experience in small group jazz performance and/or jazz theory. Hours vary.

Prerequisite: Permission of the course director, by audition. Open to non-majors.

Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.

FA/MUSI 1052 3.0 Jazz Orchestra I. The York Jazz Orchestra performs traditional and contemporary jazz for large ensembles, including student compositions as well as music by noted jazz composers.

Prerequisite: Permission of the course director, by audition. Open to non-majors.

Note: The Jazz Orchestra meets from September to April.

FA/MUSI 1053 3.0 Jazz Choir I. This course provides instruction in jazz choral techniques and emphasizes the development of vocal performance skills within the jazz tradition.

Prerequisite: Permission of the course director, by audition.

Note: The Jazz Choir meets from September to April.

FA/MUSI 1054A 3.0/1054A 6.0 Jazz Piano. This course focuses on performance dealing primarily with the tradition of jazz piano in both its solo and ensemble forms. Practical instruction in jazz piano performance includes an emphasis on developing stylistic fluency and repertoire competency.

Prerequisite: Permission of the instructor for 1054A, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1054B 3.0/1054B 6.0 Jazz Bass. This course focuses on performance techniques within the tradition of jazz bass as manifested in various historical and contemporary styles. Practical instruction in jazz bass playing includes an emphasis on developing proper technique, tone, intonation, harmonic conception, stylistic integrity, melodic fluency, and repertoire competency.

Prerequisite: Permission of the instructor for 1054B, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1054C 3.0/1054C 6.0 Jazz Percussion. This course focuses on performance dealing primarily with the tradition of jazz percussion performance styles. Practical instruction in jazz drum “set” or “kit” includes an emphasis on developing proper technique, stylistic fluency and repertoire competency.

Prerequisite: Permission of the instructor for 1054C, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1054D 3.0/1054D 6.0 Jazz Guitar. This course focuses on performance techniques within the tradition of jazz guitar as manifested in various historical and contemporary styles. Practical instruction in jazz guitar playing includes an emphasis on developing melodic technique, harmonic structure, stylistic integrity, comping fluency and repertoire competency.

Prerequisite: Permission of the instructor for 1054D, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1054E 3.0/1054E 6.0 Jazz Woodwind. This course focuses on performance techniques within the tradition of jazz woodwind (saxophone, clarinet, flute) as manifested in various historical and contemporary styles. Practical instruction in jazz woodwind playing includes an emphasis on developing tone, technique, harmonic sensitivity, stylistic integrity, melodic fluency and repertoire competency.

Prerequisite: Permission of the instructor for 1054E, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1054F 3.0/1054F 6.0 Jazz Brass. This course focuses on performance techniques within the tradition of jazz brass (trumpet, trombone, tuba) as manifested in various historical and contemporary styles. Practical instruction in jazz brass playing includes an emphasis on developing tone, technique, harmonic sensitivity, stylistic integrity, melodic fluency and repertoire competency.
Prerequisite: Permission of the instructor for 1054F, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1054G 3.0/1054G 6.0 Jazz Vocal. This course focuses on performance dealing primarily with the tradition of solo jazz singing. Practical instruction in jazz vocal performance includes an emphasis on developing stylistic fluency and repertoire competency.

Prerequisite: Permission of the instructor required for 1054G, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1059 3.0 Jazz Theory and Musicianship I. A jazz theory course for students in the jazz performance stream. All students enrolled in FA/MUSI 1051 6.0 must be concurrently enrolled in FA/MUSI 1059 3.0. However, qualified students may elect to take FA/MUSI 1059 3.0 without concurrent enrolment in FA/MUSI 1051 6.0.

Corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.

FA/MUSI 1070 3.0/1070 6.0 Electro-Acoustic Orchestra. This course allows students to participate in a large electro-acoustic orchestra that will create (re-create) and perform both historical and contemporary repertoire using both the latest digital sound production hardware as well as traditional instruments. A participating student will be required to function as both performer and in at least one other capacity such as composer, arranger, improviser or conductor.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 1080 3.0/1080 6.0 Classical Piano Performance. Instruction and recital preparation in classical piano through individual lessons and master classes.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 1081 3.0 Piano Literature and Pedagogy. Literature and pedagogy of classical piano. Students undertake lecture demonstrations, piano four-hand projects and research papers. The literature will rotate through a three-year cycle treating different historical periods. Open to non-majors who have studied piano. Activities vary according to the level of skill and experience of the individual student.

Prerequisite: Permission of the course director.

FA/MUSI 1082 3.0 Piano Accompanying. This course develops the pianist's ability to function as a sensitive and musical accompanist.

Prerequisite: Permission of the course director.

FA/MUSI 1090 3.0 Middle Eastern Ensemble. Practical instruction in selected Middle Eastern classical and folk repertoires drawn from Arab, Persian and Turkish cultures. In addition to voice and percussion (frame drum, darabouka) instrumentation will include oud, setar (lute), violin and ney (reed flute).

Prerequisite: Permission of the course director.

FA/MUSI 1091 3.0 World Music Chorus. A practical performance course which surveys selected polyphonic traditions from around the world. This course seeks to expand conceptions regarding vocal technique and production while exploring various compositional possibilities.

Prerequisite: Permission of the course director.

FA/MUSI 1092 3.0 Early Music Ensemble. Practical instruction in selected repertoires drawn from medieval and Renaissance sources. Ensembles will utilize voice, wind (recorders and gemshorns), string and percussion instruments.

Prerequisite: Permission of the instructor.

FA/MUSI 1093 3.0 Balkan Music Ensemble. Practical instruction in selected repertoires drawn from the rich and varied Balkan region sources. Ensembles will utilize voice, string, wind and percussion instruments.

Prerequisite: Permission of the instructor.

FA/MUSI 1094 3.0 Latin Jazz Ensemble. Practical instruction in established and newly-composed repertoires drawn from the confluence of Afro Latin folk/popular music and jazz. The course will provide fundamental instruction in Latin folk music traditions.

Prerequisite: Permission of the instructor for 1094, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1095 3.0 Caribbean Ensemble. Practical instruction in repertoires drawn from the island cultures of the Caribbean region with a focus on the steel pan tradition. The course will provide fundamental instruction in steel pan or drum repertoire, techniques, and traditions.

Prerequisite: Permission of the instructor for 1095, appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 1099 3.0/1099 6.0 World Music: Individual Instruction. This course provides instruction in instrumental or vocal performance. Students enroll in the course corresponding to their instrument. Open to majors and non-majors.

A. Ashkenazi and Sephardic Vocal Music
B. Balkan Vocal Music
C. Country and Folk Fiddle Traditions
D. Dizi
E. Early Music Wind Instruments
F. Flamenco Guitar
G. Folk Guitar
H. Hand Percussion: Various Traditions
I. Shakuhachi
J. Jembe
K. Kora
L. Baglama
M. Medieval and Renaissance Bowed Strings
O. Oud
P. Pipa
Q. Koto
R. Recorder
S. Setar
T. Tabla
U. Plucked Strings: Medieval and Renaissance
V. Village Folk Vocal Styles
W. World Rhythms for Drumkit
X. Xiao
Y. Yangqin
Z. Zhonghu and Erhu

Prerequisite: Permission of the course director, by audition.

FA/MUSI 1110 3.0 Composition Studio I. An introduction to musical composition for acoustic instruments and voice, emphasizing clarity as attained by distinct decisions about all compositional variables and adequate notation of these. Students are expected to expand their idiomatic ranges.

Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0. Open to non-majors/minors by permission of the course director.

Degree credit exclusion: The former FA/MUSI 2110 3.0.

FA/MUSI 1140 6.0 Digital and Electronic Media I. This course deals with the historical, technical and aesthetic aspects of electronic music systems in theory, composition and performance. Work includes the theory and analysis of acoustics, sound recording, classical tape techniques, synthesizers, microphones, mixers and various digital and analogue devices and methods.

Prerequisites or corequisites: For music majors, FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0. Open to non-majors/minors by permission of the course director.

FA/MUSI 1200 9.0 Musics and Cultures I. Students are exposed to concepts underlying music as a whole, with emphasis upon the cultivation of listening skills and upon the aural recognition of particular kinds of musical materials. Topics include rhythm and meter, acoustics, melody, harmony, texture, musical form and basic techniques of analysis. Six hours. Open only to music majors and minors, and required of all first year full time music majors. Available to students in fine arts cultural studies by entrance examination.

FA/MUSI 1510 6.0 The Musical Experience. This course teaches active, creative listening skills largely via an examination of the history of European “art” music from the medieval period to the present. In the process, students will learn to read music and a modicum of music theory will be introduced. In addition, the music of a number of non-European cultures will be briefly explored. Although a formal background in music is not required, students will be expected to perform rhythmic and structural analyses.

Degree credit exclusions: FA/MUSI 1511 3.0, FA/MUSI 1512 3.0.
Courses of Instruction

FA/MUSI 1520 6.0 Rhythm and Blues, Soul, Funk and Rap. This course explores in-depth the range of African-American popular musics that have come into existence since the end of the Second World War. All styles and genres are studied from both a musicological and sociological perspective. Designed for students not majoring or minoring in music. 
Prerequisite: None.

FA/MUSI 1530 6.0 Rock and Popular Music. This course explores in-depth from both a musicological and sociological perspective the range of Euro-American popular musics as well as some styles of British popular music that have come into existence since the end of the Second World War. Designed for students not majoring or minoring in music.
Prerequisite: None.

FA/MUSI 1540 6.0 World Music. This course is a broad, comparative survey of the indigenous music of North and South America, Africa, Asia, Europe, Australia, and Oceania. Selected classical, folk, and popular genres from around the globe will be studied from the perspectives of varying social contexts, musical structures and performance practices.
Prerequisite: None. 
Note: This course is designed for students not majoring or minoring in music. No prior training is required.

FA/MUSI 1550 6.0 Latin and Caribbean Popular Music. This course explores the popular music styles found in Latin America (Central and South America including Brazil, Argentina, Venezuela, etc.) and the Caribbean (including Jamaica, Cuba, Trinidad, etc.). Areas of musical style study will include salsa, samba, tango, bossa nova, reggae, zouk, calypso, merengue etc.
Note: This course is open to non-majors only.

FA/MUSI 2020 3.0/2020 6.0 Classical Performance: Individual Instruction. This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their particular instrument.
Prerequisite: Permission of the course director, by audition.
Corequisites: FA/MUSI 2022 3.0, FA/MUSI 2024 3.0 or FA/MUSI 2025 3.0 or FA/MUSI 2026 3.0, FA/MUSI 2053 3.0, FA/MUSI 2054 3.0 or FA/MUSI 2091 3.0.

FA/MUSI 2022 3.0 York University Women’s Chorus. Continuation of FA/MUSI 1022 3.0.
Prerequisite: Permission of the course director, by audition.

FA/MUSI 2024 3.0 York University Concert Choir. Continuation of FA/MUSI 1024 3.0.
Prerequisite: Permission of the course director, by audition.

FA/MUSI 2025 3.0 York University Wind Symphony. Continuation of FA/MUSI 1025 3.0.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 2026 3.0 Orchestra. Continuation of FA/MUSI 1026 3.0.
Prerequisite: Permission of the course director, by audition.

FA/MUSI 2028 3.0 York Chamber Music Ensembles. Continuation of FA/MUSI 1028 3.0.
Prerequisite: Permission of the course director, by audition.
Corequisite: FA/MUSI 2020 3.0.

FA/MUSI 2029 3.0 Vocal Diction II. Continuation of FA/MUSI 1029 3.0 Vocal Diction I. Examines diction as it relates to performance within the tradition of classical voice. Students will receive practical instruction in classical vocal pronunciation, diction, articulation and correct vowel formation with an aim to developing the linguistic fluency and foreign language competency necessary for the vocal art in the western classical tradition.
Prerequisite: FA/MUSI 1029 3.0 or permission of the instructor.

FA/MUSI 2031 6.0 Piano Improvisation and Contemporary Styles. Continuation of FA/MUSI 1031 6.0. Hours vary.
Prerequisite: Permission of the course director, by audition.

FA/MUSI 2032 6.0 Contemporary Musicianship and Improvisation. Continuation of FA/MUSI 1032 6.0. Hours vary.
Prerequisite: Permission of the course director, by audition.

FA/MUSI 2040 6.0 South Indian Music. Practical training in performance styles, together with some of the appropriate theory, terminology and cultural background.
Prerequisite: No prior experience is necessary, but permission of the course director is required. Open to non-majors.

FA/MUSI 2041 6.0 Philippine Kolintang Ensemble I. Practical training in performance styles, together with some of the appropriate theory, terminology and cultural background.
Prerequisite: No prior experience is necessary, but permission of the course director is required. Open to non-majors.

FA/MUSI 2042 3.0 Gamelan Orchestra. Group instruction in the technique and performance of Indonesian Gamelan repertoire.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2043 3.0 West African Drum Ensemble. Practical instruction on the two fontom from ensembles of Ghana.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2044 3.0 Celtic Canadian Folk Ensemble. Practical instruction in several vernacular fiddle-based musical traditions of several North American regions. Some knowledge of fiddle, guitar, piano, banjo, harmonica or tin whistle is an asset.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2045 3.0 Klezmer Folk Ensemble. Practical performance instruction in the Klezmer musical tradition. Some performance ability and knowledge of fiddle, bass, guitar, piano, or clarinet required.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors with appropriate skill level in piano playing. (Grade VIII RCM level suggested).

FA/MUSI 2047 3.0 Chinese Classical Ensemble. Practical and repertoire studies in traditional Chinese orchestral techniques (chin, erhu etc.) Students learn and perform pieces from the repertoire while concentrating on appropriate instrumental techniques.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2048 3.0 Japanese Music. Practical and repertoire studies in traditional instrumental techniques (shakuhachi, koto etc.) Students concentrate on issues of performance such as tone colour, rhythmic accuracy and nuance, and ensemble performance.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2049 3.0 Cuban Music. A performance oriented course dealing primarily with Cuban popular music styles. An in depth examination of various Afro-cuban traditional musics, which have had important influence on the popular styles, will also be presented.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.
Courses of Instruction

FA/MUSI 2051 6.0 Jazz Workshop II. Continuation of FA/MUSI 1051 6.0. Hours vary. Prerequisite: Permission of the course director, by audition.

FA/MUSI 2052 3.0 Jazz Orchestra II. Continuation of FA/MUSI 1052 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 2053 3.0 Jazz Choir II. Continuation of FA/MUSI 1053 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 2054A 3.0/2054A 6.0 Jazz Piano. Continuation of FA/MUSI 1054A. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2054B 3.0/2054B 6.0 Jazz Bass. Continuation of FA/MUSI 1054B. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2054C 3.0/2054C 6.0 Jazz Percussion. Continuation of FA/MUSI 1054C. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2054D 3.0/2054D 6.0 Jazz Guitar. Continuation of FA/MUSI 1054D. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2054E 3.0/2054E 6.0 Jazz Woodwind. Continuation of FA/MUSI 1054E. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2054F 3.0/2054F 6.0 Jazz Brass. Continuation of FA/MUSI 1054F. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2054G 3.0/2054G 6.0 Jazz Vocal. Continuation of FA/MUSI 1054G. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2059 3.0 Jazz Theory and Musicianship II. A jazz theory course for students in the jazz performance stream. All students enrolled in FA/MUSI 2051 6.0 must be concurrently enrolled in FA/MUSI 2059 3.0. However, qualified students may elect to take FA/MUSI 2059 3.0 without concurrent enrolment in FA/MUSI 2051 6.0. Prerequisite: FA/MUSI 1059 3.0 or equivalent. Prerequisites or corequisites: FA/MUSI 1000 6.0 and FA/MUSI 1200 9.0.

FA/MUSI 2070 3.0/2070 6.0 Electro-Acoustic Orchestra. This course allows students to participate in a large electro-acoustic orchestra that will create (re-create) and perform both historical and contemporary repertoire using both the latest digital sound production hardware as well as traditional instruments. A participating student will be required to function as both performer and in at least one other capacity such as composer, arranger, improviser or conductor.

FA/MUSI 2080 3.0/2080 6.0 Classical Piano Performance. Instruction and recital preparation in classical piano through individual lessons and master classes. Prerequisite: Permission of the course director, by audition.

FA/MUSI 2081 3.0 Piano Literature and Pedagogy. Literature and pedagogy of classical piano. Open to non-majors who have studied piano. Activities vary according to the level of skill and experience of the individual student. Prerequisite: Permission of the course director.

FA/MUSI 2082 3.0 Piano Accompanying. This course develops the pianist’s ability to function as a sensitive and musical accompanist. Prerequisite: Permission of the course director.

FA/MUSI 2090 3.0 Middle Eastern Ensemble. Continuation of FA/MUSI 1090 3.0. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2091 3.0 World Music Chorus. Continuation of FA/MUSI 1091 3.0. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2092 3.0 Early Music Ensemble. Continuation of FA/MUSI 1092 3.0. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2093 3.0 Balkan Music Ensemble. Continuation of FA/MUSI 1093 3.0. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 2094 3.0 Latin Jazz Ensemble. Practical instruction in established and newly-composed repertoires drawn from the confluence of AfroLatin folk/popular music and jazz. The course will provide fundamental instruction in Latin folk music traditions. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 2095 3.0 Caribbean Ensemble. Practical instruction in repertoires drawn from the island cultures of the Caribbean region with a focus on the steel pan tradition. The course will provide fundamental instruction in steel pan or drum repertoire, techniques, and traditions. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 2110 3.0 Composition Studio II. A continuation of work begun in FA/MUSI 1110 3.0, emphasizing the control of variation, repetition and development to create coherent musical thought in short compositions for small groups of acoustic instruments and voices. Prerequisite: FA/MUSI 1110 3.0 (formerly FA/MUSI 2110 3.0) or permission of the course director.

FA/MUSI 2140 6.0 Digital and Electronic Media II. A continuation of work begun in MUSI 1140 6.0, with an emphasis on the historical and contemporary use of digital and electronic music systems. Emphasis is on creative studio work using digital and electronic music systems in composition and performance. Prerequisites: FA/MUSI 1140 6.0 or permission of the course director for music majors, FA/MUSI 1000 6.0 (or FA/MUSI 2000 6.0) and FA/MUSI 1200 9.0.

FA/MUSI 2200 6.0 Musics and Cultures II. Historical developments and social context of specific repertoires including western art music. Involves intensive repertoire study, aural perception, analysis and score reading in addition to developing skills in writing about music and its place in the historical/cultural continuum. Mandatory unless exempted via a proficiency exam. Prerequisites: FA/MUSI 1000 6.0 with a minimum grade of C+, and FA/MUSI 1200 9.0. Note: Must be completed within the first 60 credits by all music majors. Offered annually.

FA/MUSI 2201 3.0 Counterpoint. Students master the traditional pedagogy of species counterpoint while studying examples of the
Renaissance vocal polyphonic style from which it is derived. Correlated work in vocal, aural and keyboard skills is a major component of the course. Four hours plus tutorial.

Prerequisites: FA/MUSI 1000 6.0 with a minimum final grade of C+, or equivalent score on a proficiency exam and FA/MUSI 1200 9.0.

FA/MUSI 2202 3.0 Harmony. Students study the traditional art of selecting and connecting chords in four voices. Idioms which draw on the formulas of this texture in freer or abstract presentations are also considered, as these are the materials of classical music which are most nearly adopted in jazz, popular and some folk music styles. Four hours plus tutorial.

Prerequisites: FA/MUSI 1000 6.0 with a minimum final grade of C+, or equivalent score on a proficiency exam and FA/MUSI 1200 9.0.

FA/MUSI 3000 6.0 Score Study, Advanced Musicianship and Conducting. Advanced musicianship, with emphasis upon skills and methods applicable to learning and teaching music from orchestral vocal and ensemble scores. Individual and class exercises in conducting, analysis, aural recognition, keyboard harmony, sight-reading and transposing.

Prerequisites or corequisites: Foundation courses. Keyboard proficiency is helpful.

FA/MUSI 3010 6.0 Rhythm. A comprehensive musicianship course, developing rhythmic skills and perception through a detailed study of Indian rhythmic theory and practice from the disciplines of music and dance. Rhythmic systems of other musical cultures are also discussed in a comparative context.

Prerequisites or corequisites: Foundation courses or permission of the course director.

FA/MUSI 3020 3.0/3020 6.0 Classical Performance: Individual Instruction. This course provides instruction in instrumental or vocal performance. Students enrol in the course number corresponding to their particular instrument.

Prerequisite: Permission of the course director, by audition.

Corequisites: FA/MUSI 3022 3.0, FA/MUSI 3024 3.0 or FA/MUSI 3025 3.0 or FA/MUSI 3026 3.0 or FA/MUSI 3052 3.0 or FA/MUSI 3053 3.0.

FA/MUSI 3022 3.0 York University Women’s Chorus. Continuation of FA/MUSI 2022 3.0.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 3024 3.0 York University Concert Choir. Continuation of FA/MUSI 2024 3.0.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 3025 3.0 York University Wind Symphony. Continuation of FA/MUSI 2025 3.0.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 3026 3.0 Orchestra. Continuation of FA/MUSI 2026 3.0.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 3028 3.0 York Chamber Music Ensembles. Continuation of FA/MUSI 2028 3.0.

Prerequisite: Permission of the course director, by audition.

Corequisite: FA/MUSI 3020 3.0.

FA/MUSI 3029 6.0 Master Class in Performance I. An intensive course in performance highlighting historical context, style, interpretation, musicianship, performance practices. Designed for students who have the ability to pursue careers or graduate studies in performance. Open to all.

Note: All FA/MUSI 3029 6.0 students participate in a weekly performance master class which includes lectures and practice in performance.

FA/MUSI 3030 3.0/3030 6.0 Recital I. This course allows advanced students in performance to present themselves in the format of a concert recital. Students must plan a recital program in conjunction with a faculty member who serves as adviser and mentor during the planning and preparation process. Applicants must submit a recital proposal and program, signed by the faculty adviser, to the Chair by Oct. 15.

FA/MUSI 3031 6.0 Piano Improvisation and Contemporary Styles. Continuation of FA/MUSI 2031 6.0.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 3032 6.0 Contemporary Musicianship and Improvisation. Continuation of FA/MUSI 2032 6.0.

Prerequisite: Permission of the course director, by audition.

FA/MUSI 3040 6.0 South Indian Classical Music II. A continuation of FA/MUSI 2040 6.0.

Prerequisites: FA/MUSI 2040 6.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3041 6.0 Philippine Koltantang Ensemble II. A continuation of FA/MUSI 2041 6.0.

Prerequisites: FA/MUSI 2041 6.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3042 3.0 Gamelan Orchestra. A continuation of FA/MUSI 2042 3.0.

Prerequisites: FA/MUSI 2042G 3.0 or FA/MUSI 2042 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.


Prerequisites: FA/MUSI 2043 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3044 3.0 Celtic Canadian Folk Ensemble. A continuation of FA/MUSI 2044 3.0.

Prerequisites: FA/MUSI 2044 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3045 6.0 Klezmer Folk Ensemble. A continuation of FA/MUSI 2045 3.0.

Prerequisites: FA/MUSI 2045 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.


Prerequisites: FA/MUSI 2046 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.


Prerequisites: FA/MUSI 2047 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.


Prerequisites: FA/MUSI 2048 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.


Prerequisites: FA/MUSI 2049 3.0 and permission of the course director.

Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3051 6.0 Jazz Workshop III. Advanced improvising and ensemble playing in contemporary jazz, emphasizing theoretical and practical competence in some of its main idioms. Students receive applied training in performance workshops each week.

Prerequisites: FA/MUSI 2051 6.0 and permission of the course director, by audition.

Corequisite: FA/MUSI 3059 6.0.

Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3052 3.0 Jazz Orchestra III. Continuation of FA/MUSI 2052 3.0.

Prerequisite: Permission of course director, by audition.
Courses of Instruction

Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3053 3.0 Jazz Choir III. Continuation of FA/MUSI 2053 3.0.
Prerequisites and corequisites: For music majors, foundation courses.

FA/MUSI 3054A 3.0/3054A 6.0 Jazz Piano. Continuation of FA/MUSI 2054A.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3054B 3.0/3054B 6.0 Jazz Bass. Continuation of FA/MUSI 2054B.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3054C 3.0/3054C 6.0 Jazz Percussion. Continuation of FA/MUSI 2054C.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3054D 3.0/3054D 6.0 Jazz Guitar. Continuation of FA/MUSI 2054D.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3054E 3.0/3054E 6.0 Jazz Woodwind. Continuation of FA/MUSI 2054E.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3054F 3.0/3054F 6.0 Jazz Brass. Continuation of FA/MUSI 2054F.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3054G 3.0/3054G 6.0 Jazz Vocal. Continuation of FA/MUSI 2054G.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3059 6.0 Jazz Theory and Musicianship III. An intensive jazz theory course for students in the jazz performance stream who through assessment at the beginning of third year, are eligible to proceed to advanced studies.
Prerequisite: FA/MUSI 2059 3.0 or equivalent, or permission of the course director.
Prerequisites or corequisites: For music majors, foundation courses.

FA/MUSI 3070 3.0/3070 6.0 Electro-acoustic Orchestra. This course allows students to participate in a large electro-acoustic orchestra that will create (re-create) and perform both historical and contemporary repertoire using both the latest digital sound production hardware as well as traditional instruments. A participating student will be required to function as both performer and in at least one other capacity such as composer, arranger, improviser or conductor.

FA/MUSI 3071 3.0 Synthesizer Performance. This course prepares the student for a career as a professional synthesizer artist. It deals with the development of specific performance techniques, style considerations and sonic perception related to contemporary synthesizer practice.
Prerequisites: Foundation courses.

FA/MUSI 3080 3.0/3080 6.0 Classical Piano Performance. Instruction and recital preparation in classical piano through individual lessons and master classes.
Prerequisite: Permission of the course director, by audition.
Corequisite: FA/MUSI 3081 3.0.

FA/MUSI 3081 3.0 Piano Literature and Pedagogy. Literature and pedagogy of classical piano. Open to non-majors who have studied piano. Activities vary according to the level of skill and experience of the individual student.
Prerequisite: Permission of the course director.

FA/MUSI 3082 3.0 Piano Accompanying. This course develops the pianist's ability to function as a sensitive and musical accompanist.
Prerequisite: Permission of the course director.

FA/MUSI 3090 3.0 Middle Eastern Ensemble. Continuation of FA/MUSI 2090 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3091 3.0 World Music Chorus. Continuation of FA/MUSI 2091 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3092 3.0 Early Music Ensemble. Continuation of FA/MUSI 2092 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3093 3.0 Balkan Music Ensemble. Continuation of FA/MUSI 2093 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 3094 3.0 Latin Jazz Ensemble. Practical instruction in established and newly-composed repertoires drawn from the confluence of Afro Latin folk/popular music and jazz. The course will provide fundamental instruction in Latin folk music traditions.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 3095 3.0 Caribbean Ensemble. Practical instruction in repertoires drawn from the island cultures of the Caribbean region with a focus on the steel pan tradition. The course will provide fundamental instruction in steel pan or drum repertoire, techniques, and traditions.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 3099 3.0/3099 6.0 World Music: Individual Instruction. This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their particular instrument. Open to majors and non-majors.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 3110 6.0 Composition Studio III. Students are encouraged to compose in contemporary idioms and to undertake exercises which expand their awareness of styles, methods, materials, notation systems. Hours vary.
Prerequisites or corequisites: Foundation courses or permission of the course director.

FA/MUSI 3120 3.0 Song Writing and Repertoire. Students develop and explore aspects of the compositional process by dealing with melodic, rhythmic, harmonic, formal and textural considerations as they pertain to song writing. Students are required to produce a substantial number of original songs and analyze relevant material from the literature. The use of the multi-track recording process is studied as a compositional aid and as a means of producing pre-production demos.
Prerequisites: Foundation courses, or permission of the course director.

FA/MUSI 3131 3.0 Jazz Composition and Arranging (Small Ensembles). A study of jazz compositional techniques of the past and present through analysis, transcription and performance. Aims of the course are development of a basic craft, and experimentation leading towards a more personal expression. Projects for small ensembles are required and read by members of the class.
Prerequisites: FA/MUSI 2201 3.0, FA/MUSI 2202 3.0 and FA/MUSI 2051 6.0, or permission of the course director.
FA/MUSI 3132 3.0 Jazz Composition and Arranging (Large Ensembles). A study of jazz compositional techniques of the past and present through analysis, transcription and performance. Aims of the course are the development of a basic craft, and experimentation leading towards a more personal expression. Projects for large ensembles are required and read by members of the class.

Prerequisites: FA/MUSI 2201 3.0, FA/MUSI 2202 3.0 and FA/MUSI 2051 6.0, or permission of the course director.

FA/MUSI 3140 6.0 Digital and Electronic Media III. Continuation of FA/MUSI 2140 6.0. Prerequisite: FA/MUSI 2140 6.0 or equivalent, or permission of the course director. Enrollment limited.

FA/MUSI 3201 3.0 Fugal Style. An introduction to fugal composition including advanced work in tonal harmony and counterpoint. Students analyze compositions in fugal style, principally those of J.S. Bach with some regard to earlier and later developments, and learn to organize and execute compositions using the techniques of this genre.

Prerequisite: FA/MUSI 2201 3.0.

FA/MUSI 3202 3.0 Sonata Style. An introduction to composition in sonata form and related genres in advanced tonal harmonic style. Students analyze compositions in sonata style, principally those of Haydn, Mozart and Beethoven, with some regard to earlier and later developments, and learn to organize and execute compositions using the techniques of this genre.

Prerequisite: FA/MUSI 2201 3.0.

FA/MUSI 3210 6.0 Introduction to Sonic Architecture and Design. This course introduces students to the complex world of sonic architecture and design. Through the manipulation, control and creation of digital instruments, the class will explore the musical and technical aspects of sonic theory and practice in the digital domain.

Prerequisites: For music majors, foundation courses.

FA/MUSI 3220 3.0 Introduction to Alternate Tunings. This course deals with the historical, theoretical, aesthetic and practical aspects of various alternate and microtonal tuning systems. Mathematical relationships, practical applications, sonic characteristics and compositional aesthetics will be discussed. Students will be encouraged to create original systems and to perform and compose music using various temperaments.

Prerequisites: Foundation courses.

FA/MUSI 3240 6.0 Instrumentation and Orchestration. A study of instruments, singly and in combination, with respect to their use in composition. The course emphasizes traditional instruments of the band and orchestra, though other types of instrumentation may be considered. The student's main work involves regular exercises in arranging or composing in a variety of styles.

Prerequisites: Foundations courses.

FA/MUSI 3300 6.0 Music of World Cultures. An introduction, through listening and analysis, filmed or live demonstrations, and occasional field trips, to the musical traditions of specific nations and communities. The social practices, concepts and sound structures of the music, as well as the impact of contemporary recording technologies will be explored.

Prerequisites: For music majors, foundation courses.

Degree credit exclusion: FA/MUSI 2310 6.0.

FA/MUSI 3310 6.0 Music in the Modern Era. A study of major musical developments from 1890 to 1950 in Europe and North America, with emphasis on the relationship between innovation and tradition and on problems of style and communication in an era of rapid social and cultural change.

Prerequisites: For music majors, foundation courses. Open to non-majors/minors by permission of the course director.

FA/MUSI 3320 6.0 Music of India. Theoretical systems and contemporary performance styles in relation to one another and in the context of a number of closely related aspects of Indian culture.

Prerequisites or corequisites: Foundation courses. Open to non-majors/minors by permission of the course director.

FA/MUSI 3340 6.0 History of European Music. A survey of the history of European music from 1590 to 1890, with particular attention to Italy, France, Austria and Germany. Important works of major composers are examined in detail with reference to the pertinent social and historical contexts.

Prerequisites: For music majors, foundation courses.

Degree credit exclusions: FA/MUSI 2220 6.0, AK/MUSI 2220 6.0.

FA/MUSI 3350 6.0 Music of the Americas. A study of the various musical traditions that have been absorbed and transformed by the emerging civilizations of the New World. Topics include: the history of music in British North America; the blending of African, European and native idioms in Latin America and the Caribbean; the rise and development of jazz, blues and urban popular music (including rock); the music and cultural life of minority groups; New World musics in their cultural context. Equivalent to AK/MUSI 3440 6.0.

Prerequisites: For music majors, foundation courses.

Degree credit exclusion: FA/MUSI 2350 6.0, AK/MUSI 3440 6.0.

FA/MUSI 3360 6.0 Jazz History and Repertory Studies. Jazz history and repertory emphasizing the small group tradition in the US from the mid-1930s to the late 1960s. Various paradigms for jazz history, style analysis and criticism are examined, with attention to jazz as a repertory music as well as a musical process.

Prerequisites: For music majors, foundation courses. Open to non-majors/minors by permission of the course director.

FA/MUSI 3370 3.0 Opera. A history of opera from its origins to the 20th century, exploring the interrelationship of music and drama. Production and staging techniques are discussed, and students are required to attend and comment critically upon all aspects of at least one live operatic performance.

FA/MUSI 3380 3.0 Western Art Song. A study of the interconnections between poetry and music in western art song, particularly in the 19th- and 20th-century German Lied, French chanson and English/North American song.

FA/MUSI 3450 3.0 Creative Applications of MIDI Technology. A major focus of the course is the mastery of MIDI technology as a means towards individual artistic expression. Class work includes regular assignments using a variety of instruments and techniques and demands both live and recorded performances. The use of MIDI-equipped mixers, effects units and rhythm composers are explored.

Prerequisites: Foundation courses; or FA/MUSI 2110 3.0 and FA/MUSI 2111 3.0.

Note: Materials fee, $25.

FA/MUSI 3460 3.0 Music Engraving and Notation Using Computers. This course deals with aesthetic, theoretical and practical considerations involved in the production and printing of music scores, and develops skill in score layout, part extraction, preparation for publications, step time/MIDI input techniques, scanning and other relevant techniques.

Prerequisites: Foundation courses.

FA/MUSI 3470 3.0 Pedagogical Applications of Computer Software in the Contemporary Music Curriculum. This course explores the recent and growing use of music software in teaching subjects such as ear training and rudiments, musicianship, theory, history and analysis. Computer-aided instruction and interactive tools are considered.

Prerequisites: Foundation courses.

FA/MUSI 3900 3.0/3900 6.0 Special Options I. In any given year, special courses may be offered in theory, composition, or performance.

Prerequisites: Foundation courses.

FA/MUSI 4020 3.0 Classical Performance: Individual Instruction. This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their particular instrument.

Prerequisite: Permission of the course director, by audition.
Courses of Instruction

Choir. Continuation of FA/MUSI 3022 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4052 3.0 York University Women’s Chorus. Continuation of FA/MUSI 3022 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4024 3.0 York University Concert Choir. Continuation of FA/MUSI 3024 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4025 3.0 York University Wind Symphony. Continuation of FA/MUSI 3025 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4026 3.0 Orchestra. Continuation of FA/MUSI 3026 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4028 3.0 York Chamber Music Ensembles. Continuation of FA/MUSI 3028 3.0. Prerequisite: Permission of the course director, by audition. Corequisite: FA/MUSI 4020 3.0.

FA/MUSI 4029 6.0 Recital and Master Class in Performance II. Continuation of FA/MUSI 3029 6.0. Prerequisites: FA/MUSI 3029 6.0 with a minimum grade of B+, or permission of the audition jury. Corequisite: FA/MUSI 4020 3.0.

FA/MUSI 4030 3.0/4030 6.0 Recital II. Continuation of FA/MUSI 3030. Prerequisite: Permission of the Chair, Department of Music.

FA/MUSI 4031 6.0 Piano Improvisation and Contemporary Styles. Continuation of FA/MUSI 3031 6.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4032 6.0 Contemporary Musicianship and Improvisation. Continuation of FA/MUSI 3032 6.0. Hours vary. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4040 6.0 South Indian Classical Music. Continuation of FA/MUSI 3040 6.0. Prerequisites: FA/MUSI 3040 6.0 and permission of the course director.

FA/MUSI 4041 6.0 Philippine Koltintang Ensemble III. Continuation of FA/MUSI 3041 6.0. Prerequisites: FA/MUSI 3041 6.0 and permission of the course director.

FA/MUSI 4042 3.0 Gamelan Orchestra. A continuation of FA/MUSI 3042 3.0. Prerequisites: FA/MUSI 3042 3.0 and permission of the course director.

FA/MUSI 4043 3.0 West African Drum Ensemble. A continuation of FA/MUSI 3043 3.0. Prerequisites: FA/MUSI 3043 3.0 and permission of the course director.

FA/MUSI 4044 3.0 Celtic Canadian Folk Ensemble. A continuation of FA/MUSI 3044 3.0. Prerequisites: FA/MUSI 3044 3.0 and permission of the course director.

FA/MUSI 4045 3.0 Klezmer Folk Ensemble. A continuation of FA/MUSI 3045 3.0. Prerequisites: FA/MUSI 3045 3.0 and permission of the course director.


FA/MUSI 4047 3.0 Chinese Classical Ensemble. A continuation of FA/MUSI 3047 3.0. Prerequisites: FA/MUSI 3047 3.0 and permission of the course director.

FA/MUSI 4048 3.0 Japanese Music. A continuation of FA/MUSI 3048 3.0. Prerequisites: FA/MUSI 3048 3.0 and permission of the course director.

FA/MUSI 4049 3.0 Cuban Music. A continuation of FA/MUSI 3049 3.0. Prerequisites: FA/MUSI 3049 3.0 and permission of the course director.


FA/MUSI 4052 3.0 Jazz Orchestra IV. Continuation of FA/MUSI 3052 3.0. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4053 3.0 Jazz Choir IV. Continuation of FA/MUSI 3053 3.0. Prerequisites: FA/MUSI 3053 3.0 and permission of the course director, by audition, and for music majors, foundation courses.

FA/MUSI 4054A 3.0/4054A 6.0 Jazz Piano. Continuation of FA/MUSI 3054A. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4054B 3.0/4054B 6.0 Jazz Bass. Continuation of FA/MUSI 3054B. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4054C 3.0/4054C 6.0 Jazz Percussion. Continuation of FA/MUSI 3054C. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4054D 3.0/4054D 6.0 Jazz Woodwind. Continuation of FA/MUSI 3054D. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4054E 3.0/4054E 6.0 Jazz Brass. Continuation of FA/MUSI 3054E. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4054F 3.0/4054F 6.0 Jazz Vocal. Continuation of FA/MUSI 3054F. Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4059 6.0 Jazz Theory and Musicianship IV. A continuation and intensification of FA/MUSI 3059 6.0. All students in FA/MUSI 4051 6.0 must be concurrently enrolled in FA/MUSI 4059 6.0. Qualified students, however, may elect to take FA/MUSI 4059 6.0 without concurrent enrolment in FA/MUSI 4051 6.0. Prerequisite: FA/MUSI 3059 6.0.

FA/MUSI 4070 3.0/4070 6.0 Electro-acoustic Orchestra. This course allows students to participate in a large electro-acoustic orchestra that will create (re-create) and perform both historical and contemporary repertoire using both the latest digital sound production hardware as well as traditional instruments. A participating student will be required to function as both performer and in at least one other capacity such as composer, arranger, improviser, or conductor.

FA/MUSI 4080 3.0/4080 6.0 Classical Piano Performance. Instruction and recital preparation in classical piano through individual lessons and master classes. Prerequisite: Permission of the course director, by audition.

FA/MUSI 4081 3.0 Piano Literature and Pedagogy. Literature and pedagogy of classical piano. Open to non-majors who have studied piano. Activities vary according to the level registration. Open to majors and non-majors.
FA/MUSI 4082 3.0 Piano Accompanying.
This course develops the pianist's ability to function as a sensitive and musical accompanist.
Prerequisite: Permission of the course director.

FA/MUSI 4090 3.0 Middle Eastern Ensemble. Continuation of FA/MUSI 3090 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4091 3.0 World Music Chorus. Continuation of FA/MUSI 3091 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4092 3.0 Early Music Ensemble. Continuation of FA/MUSI 3092 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4093 3.0 Balkan Music Ensemble. Continuation of FA/MUSI 3093 3.0.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration. Open to majors and non-majors.

FA/MUSI 4094 3.0 Latin Jazz Ensemble. Practical instruction in established and newly-composed repertoires drawn from the confluence of Afro-Latin folk/popular music and jazz. The course will provide fundamental instruction in Latin folk music traditions.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 4095 3.0 Caribbean Ensemble. Practical instruction in repertoires drawn from the island cultures of the Caribbean region with a focus on the steel pan tradition. The course will provide fundamental instruction in steel pan or drum repertoire, techniques, and traditions.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 4099 3.0/4099 6.0 World Music: Individual Instruction. This course provides instruction in instrumental or vocal performance. Students enrol in the course corresponding to their particular instrument. Open to majors and non-majors.
Prerequisite: Appropriate lower level or permission of the instructor required for upper-level registration.

FA/MUSI 4110 6.0 Composition Studio IV. A continuation of FA/MUSI 3110 6.0. Advanced work in composition, analysis, and current music-theoretic ideas of relevance to the composer.
Prerequisites: FA/MUSI 3110 6.0 and permission of the course director. Prior or concurrent courses in the theory and literature of 20th-century music, such as FA/MUSI 3310 6.0 or FA/MUSI 4300 3.0, are strongly recommended.

FA/MUSI 4140 6.0 Composition for Film. Advanced composition studies involving the creation of recorded soundtracks for motion picture (formats will vary depending on project — i.e. film, video, DV, Internet, Multimedia Applications, Mini-DV, Firewire Port, Random Access, Final Cut Pro, Quicktime etc.). During the course, students will complete several composition projects and sync them to picture.
Prerequisite: Permission of the course director.

FA/MUSI 4150 6.0 Digital Recording, Editing and Composition. This course deals with digital composition techniques. Included are topics such as: hard disk recording, destructive and non-destructive editing, non-linear editing, digital signal processing, digital audio sampling, multipass processing, processor smoothing, effects portamento, sample looping, crossfading and other additional rubrics.
Prerequisites: Foundation courses and permission of the course director.

FA/MUSI 4200 3.0 Topics in Advanced Theory and Analysis. A seminar in contemporary musical analysis emphasizing the comprehensive investigation of complete musical works. Drawing on such perspectives as set theory or Schenkerian reduction, the course introduces the student to research problems in theory and analysis from various perspectives.
Prerequisite: A minimum grade of B in a third year theory course.

FA/MUSI 4300 3.0 Studies in Contemporary Music. Analytical and historical studies of the theory and development of contemporary music, with emphasis on the latter half of the 20th century.
Prerequisite: FA/MUSI 3310 6.0 or permission of the course director.

FA/MUSI 4320 3.0 Honours Seminar. Researchers are motivated by problems which reflect basic issues in intellectual history, humanities, science and social science. In this course, pilot projects will introduce the broad range of research tools which several centuries of theory and academic scholarship have made available to musical study.
Prerequisite: A minimum grade of B in an upper-level studies course.

FA/MUSI 4370 3.0 Music of Canada. Canadians tend to be sharply aware of the derivative aspects of their culture; yet the physique of Canadian music taken as a whole is unique. This course studies selected aspects of Canadian musical achievements which offer perspectives on our national situation.
Prerequisite: FA/MUSI 3310 6.0, FA/MUSI 3350 6.0 or permission of the course director.

FA/MUSI 4390 3.0/4390 6.0 Special Topics II. In any given year, advanced courses may be offered in history or area studies.
Prerequisite: An upper-level studies course.

FA/MUSI 4399 3.0 Special Topics in the Graduate Program. Fourth-year undergraduates who have the necessary background may apply to take certain half courses offered in the graduate program.
Prerequisites: Permission of both the graduate program director and the course director; a minimum grade of B+ in an upper-level studies course.

FA/MUSI 4590 3.0/4590 6.0 Honours Project in Music. A special project option open to fourth year students who have shown an exceptional ability to study independently and who have designed a course that cannot be accommodated elsewhere in the department’s offerings. At the end of the year, the student’s work is evaluated on the basis of one or more of the following: a recital, composition, research paper, or lecture-recital.
Prerequisite: Permission of the Curriculum Committee.
Note: See departmental supplementary calendar for specific requirements.

FA/MUSI 4600 6.0 Seminar on the Sonic Enhancement of Healing and Learning. A seminar exploring the use of sound, in conjunction with colour and other subtle energies, as tools for the enhancement of healing, learning and creative activity in the context of recent literature from the disciplines of metaphysics, physics, biology, psychology, phonology, thanatology, colour theory and music composition.
Prerequisite: An upper-level studies course or permission of the course director.

Natural Science – Pure and Applied Science

Division Office:
126 Chemistry Building, 416-736-5021

Director of the Division:
P.A. Delaney

Professors:
N. Bartel, D.R. Hastie, C.E. Holloway,
P.A. Delaney

Professor Emeritus:
B.G. Loughton

Associate Professor:
S. Jeffers
Courses of Instruction

Courses in Natural Science

The natural science courses are designed, as part of the general education program, to acquaint those students not intending to be professionally concerned with science with the outlook, methods and some of the achievements of science. The individual courses offered approach this objective by selecting a particular area, problem or aspect of science in which the operations of the scientific enterprise can be studied in some detail.

The courses may be broadly classified into four areas, within which some overlap occurs, resulting in degree credit exclusions as noted. However, in certain circumstances, such exclusions are petitionable. The four categories are as follows:

a) History and philosophy of science and technology (with science laboratories and/or tutorials): SC/NATS 1710 6.0, SC/NATS 1730 6.0, SC/NATS 1760 6.0;
c) Environmental science: SC/NATS 1640 6.0, SC/NATS 1770 6.0, SC/NATS 1840 6.0;
d) Physical science: SC/NATS 1720 6.0 (also has a psychological component), SC/NATS 1740 6.0, SC/NATS 1750 6.0, SC/NATS 1780 6.0 (has an environmental aspect), SC/NATS 1790 6.0, SC/NATS 1810 6.0, SC/NATS 1820 6.0, SC/NATS 1830 6.0.

The natural science courses are intended primarily for non-science majors. Courses in biology, chemistry, earth and atmospheric science, physics and astronomy and other science disciplines are described elsewhere in this section of the Calendar. Those courses are available, subject to prerequisites, as electives to students in the Faculties of Arts and Fine Arts. Six credits from 1000-level courses offered by the departments of Biology, Chemistry, Earth and Atmospheric Science, Physics and Astronomy, will satisfy the Faculty of Arts natural science general education requirement.

Grading Procedure. Grades will be assigned in the manner described by the Faculty of Pure and Applied Science in the Faculty of Pure and Applied Science Regulations Governing Examinations and Academic Standards section of this Calendar.

Not all natural science courses will be offered in any given year. The contact hour information in the course outlines below specifies the number of hours per week when the course is taught in the daytime in a fall/winter session. If the course is offered in a summer session, the format and scheduling may be different, though equivalent in credit value. For all such scheduling details, students should consult the Lecture Schedules or the natural science mini-calendar which is published in March of each year.

The natural science courses all follow the Faculty of Arts sessional dates.

Associate Lecturers:
E.C. Gardonio, N. Smith, B. Wall

For a list of Atkinson Faculty of Liberal and Professional Studies courses which are degree credit exclusions for natural science courses in this Calendar, Faculty of Arts students should consult the Faculty of Arts degree credit exclusion/equivalent tables in the back of the Lecture Schedules. Science students should consult the Faculty of Pure and Applied Science degree credit exclusion/ equivalent tables in the back of the Lecture Schedules and in the Office of Science Academic Services beginning in March each year.

SC/NATS 1610 6.0 The Living Body. Some aspects of human biology, including structure and function, reproduction, physiology, genetics and a study of some human diseases. Laboratories are self-paced, scheduled audiotutorials involving demonstrations, experiments and observations. Two lecture hours, two laboratory hours. Two terms. Six credits.


SC/NATS 1620 6.0 Human Biology: Brain and Behaviour. The first term examines nerve cells, drug action, visual and auditory systems, and neural bases of learning and memory. Brain imaging is discussed. The second term focuses on muscle control, brain development, human genetics and brain evolution. Three lecture hours for two terms, two laboratory hours for one term. Six credits.

Degree credit exclusion: Not open to students enrolled in biology programs.

SC/NATS 1640 6.0 Biology and the Environment. This course provides an understanding of the fundamental biological and ecological principles influencing the environment. The impact of the human species on the biosphere and inter-relationships with all living organisms are discussed in the context of environmental concerns. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusions: SC/NATS 1690 6.0, SC/NATS 1770 6.0, SC/NATS 1840 6.0, ES/ENVS 1500 6.0. Not open to students enrolled in biology programs.

SC/NATS 1650 6.0 Human Anatomy for the Fine Arts. An introductory course on the structure and function of the human body specifically oriented towards the needs of students in fine arts. Body systems are studied from anatomical, physiological and biomechanical perspectives. Included as well are on-going references to nutrition, athletic injuries, and health and wellness. Two lecture hours, two laboratory hours. Two terms. Six credits.


SC/NATS 1660 6.0 The Biology of Sex. This course investigates the role of sexual reproduction in the living world. The cellular, physiological and genetic bases of sex are discussed. Other topics include sexual behaviour and the influence of sexual reproduction on evolution. Three lecture hours for two terms, two laboratory hours for one term. Six credits.

Degree credit exclusions: SC/NATS 1610 6.0, SC/NATS 1690 6.0. Not open to students enrolled in biology programs.

SC/NATS 1680 6.0 The Genetic Revolution. This course examines the impact of recent genetic discoveries on medicine, agriculture and industry. New technologies employ enzymes to cut and splice DNA from different organisms. This has the potential to benefit human society but gene manipulations raise important ethical questions. Three lecture hours, one tutorial hour. Two terms. Six credits.


SC/NATS 1690 6.0 Evolution. This course concerns the origin and diversification of life forms on Earth. Students are introduced to the historical development of evolutionary theory, classification of living things and to scientific explanations of how biological diversity has arisen. Three lecture hours for two terms, two laboratory hours for one term. Six credits.


SC/NATS 1695 6.0 Evolution and the Diversity of Life. An introductory overview of some of the major issues, concepts and theories concerning evolution and the diversity of life from the rise of Darwinism in the 19th century, to molecular biology and global ecology in the second half of the 20th century. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusions: SC/NATS 1690 6.0, AK/NATS 1770 6.0. Not open to students enrolled in biology programs.

SC/NATS 1710 6.0 The Nature and Growth of Scientific Thought. Science is examined as an intellectual activity. Emphasis is placed on the evolution of some key concepts to show the nature and methodology of natural science, the development of scientific ideas and their grounding in experience. Three lecture hours plus scheduled laboratory sessions. Two terms. Six credits.

Degree credit exclusion: SC/NATS 1730 6.0.

SC/NATS 1720 6.0 Light and Sound. An introduction to the physics, physiology and psychology of light and sound, together with some of the historical background and philosophical implications of these studies. Three lecture hours plus scheduled laboratory sessions. Two terms. Six credits.
SC/NATS 1730 6.0 Science as Discovery. A study of the nature of scientific discovery based on several case histories, including the Ptolemaic and Copernican planetary theories, the Newtonian mechanist system, Darwin’s theory of evolution, Einstein’s relativity, and Watson and Crick’s discovery of the structure of DNA. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusion: SC/NATS 1710 6.0.

SC/NATS 1740 6.0 Astronomy. A discussion of our present understanding of the universe and its constituents. Topics include the structure and evolution of the planets, stars, galaxies and the universe as a whole. Three lecture hours per week, two-hour laboratory sessions every second week. Two terms. Six credits.

Degree credit exclusions: Not open to any student who has passed or is taking SC/PHYS 1070 3.0.

SC/NATS 1750 6.0 The Earth and Its Atmosphere. Topics addressed concerning the Earth include geochronology, seismology, geomagnetism and plate tectonics. Topics addressed concerning the atmosphere include the general circulation, climate change, ozone depletion, weather and violent storms. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusions: SC/NATS 1780 6.0. Not open to any student who has passed or is taking a course in earth and atmospheric science.

SC/NATS 1760 6.0 Science and Technological Change. The relationship and interaction between science and technology are explored through a number of topics, both biological and physical. Specific topics discussed may vary from year to year, but must have relevance to our everyday lives and life-styles. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusions: SC/NATS 1780 6.0.

SC/NATS 1800 6.0 Special Topics in Natural Science. Each year the division may offer full courses of a unique or experimental character in natural science. Descriptions of such courses are available in the divisional office in March of the preceding year. Two terms. Six credits.

SC/NATS 1810 6.0 Energy. Conversion technology of current and possible future energy sources is described. The extent of the resource base of each and the environmental consequences of utilization are discussed, with emphasis on nuclear power and energy policies of Ontario and Canada. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusions: SC/NATS 1800C 6.0, SC/BC 1810 6.0.

SC/NATS 1820 6.0 Molecules and The Mind. A study of the role of chemistry in contemporary society. Relevant topics are selected each year to show how chemistry impinges upon daily life. Important historical perspectives and basic concepts, such as energy and atomic/molecular structure, are introduced as background. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusions: Not open to any student who has passed or is taking any one of SC/CHEN 1000 6.0, SC/CHEN 1001 3.0, SC/CHEN 1002 3.0, SC/CHEN 1010 6.0.

SC/NATS 1830 6.0 Matter and Structure. From atomic structure comes molecular structure, and, in turn, come the physical properties of matter composed of atoms and molecules. The relationship between physical properties and usefulness of materials is developed. The role of science in developing new materials is discussed. Three lecture hours per week, two tutorial/laboratory hours in alternate weeks. Two terms. Six credits.

SC/NATS 1840 6.0 Science and the Environment. This course provides a simplified description of the complex interactions and balances controlling the biosphere. The ways in which pollutants are produced and dispersed in the environment are discussed, together with their effects and how they are monitored and controlled. Three lecture hours, one tutorial hour. Two terms. Six credits.

Degree credit exclusions: SC/NATS 1640 6.0, SC/NATS 1840 6.0.

SC/NATS 1850 6.0 Biomedical Ethics and the New Genetics. Recent developments in genetics and biotechnology are rapidly generating both medical breakthroughs and societal dilemmas. This course provides an understanding of basic principles of molecular biology and human genetics, and examines societal and bioethical implications of the new genetics. Three lecture/seminar hours. Two terms. Six credits.

Cross-listed to: SC/BC 1850 6.0.


SC/NATS 1860 6.0 Science: Past, Present and Future. Modern science has drastically changed our lives and how we perceive the world and will do so In future. This course explores, through case studies of revolutions in biological and physical sciences, how scientists work, experiment, theorize, communicate and debate. Three lecture hours and one hour online tutorial per week. Two terms. Six credits.

SC/NATS 2700 9.0 Science: Fundamental Ideas and Social Dimensions. A study of key ideas in the physical, life, earth, space and environmental sciences necessary to teach the Ontario elementary science curriculum. The social dimensions of science and technology, especially relating to Canada, are integrated with the scientific material. Four lecture hours per week, 12 two-hour laboratory sessions. Two terms. Nine credits.

Prerequisite: Normally open only to those coregistered in the Faculty of Education primary/junior or junior/intermediate programs or planning to apply for those programs.

Note: This course fulfills the Faculty of Arts general education requirement.

Philosophy – Arts

Department Office: S428 Ross, 416-736-5113
Fax: 416-736-5114
Web Address: www.arts.yorku.ca/phil/
Chair of the Department: G. Naddaf
Distinguished Research Professors: L.B. Code, I.C. Jarvie
Professors: A.W. Cragg, M.A. Gilbert, L.J.M. Green, J.N. Hattiangadi
Assistant Professors: K. Andrews

*Philosophy is to be studied, not for the sake of any definite answers to its questions, since no definite answers can, as a rule, be known to be true, but rather for the sake of the questions themselves: because these questions enlarge our conception of what is possible, enrich our intellectual imagination and diminish the
Courses of Instruction

Degree credit exclusion: AK/PHIL 1400 6.0. Democritus will be explored. How does humankind’s relation to the world? Philosophers are the origin of modern Western thought. How do we understand the world? This course examines their writings and philosophy. Roots in their work. This course examines their writings and philosophy.

Plato

AS/PHIL 2015 3.0 Plato and Aristotle. Plato and Aristotle are the pillars of Western philosophy. Practically all modern thought has its roots in their work. This course examines their writings and philosophy.

AS/PHIL 2020 3.0 Reason, God and the Mind. The works of Descartes, Spinoza and Leibniz are crucial building blocks of our contemporary understanding of the world. This course examines their work.

AS/PHIL 2025 3.0 Experience, World and the Self. Locke, Berkeley and Hume manifested an approach to philosophy that emphasized sense experience and the development of all knowledge from it. This course explores this tradition and its impact on our current world view.

Cross-listed to: AK/PHIL 2025 3.0.

AS/PHIL 2035 3.0 Asian Philosophical Traditions. This course is an introduction to the major philosophical traditions of India and China.


Cross-listed to: AK/PHIL 2050 6.0.

Degree credit exclusion: AK/PHIL 3530 6.0.

AS/PHIL 2060 3.0 Social and Political Philosophy. This course examines several theories of social justice including utilitarianism, social contract theory and natural rights. How do we distinguish between right and wrong? Good and evil?

Cross-listed to: AK/PHIL 2060 3.0.

AS/PHIL 2070 3.0 Introductory Ethics. This course provides a basic introduction to the major ethical theories in western thought, and to some basic metaethical questions. One such question is “What, if anything, does it mean to say that a certain action is morally good or right?”

Cross-listed to: AK/PHIL 2070 3.0.

AS/PHIL 2075 3.0 Introduction to Applied Ethics. This course introduces students to the application of ethical theory to controversial public issues such as abortion, affirmative action and euthanasia, among others.

AS/PHIL 2080 3.0 Perception, Knowledge and Causality. This course provides an introduction to philosophical discussion about what exists, or what is most real, the subject of metaphysics, and what we can truly know about such things. What are the most basic things and how do they interact with each other?

Cross-listed to: AK/PHIL 2080 3.0.

AS/PHIL 2090 3.0 Philosophy of Religion. Can we prove God’s existence or must we experience God directly? Is faith opposed to reason? Are miracles and revelations really possible? Do a mystic’s claims count as knowledge?

Cross-listed to: AK/PHIL 2090 3.0.

AS/PHIL 2100 3.0 Introduction to Logic. Logic, in the philosophical tradition, is the study of what makes arguments valid. That is, it aims to distinguish correct reasoning from faulty reasoning. Modern symbolic logic begins this project by giving two complementary analyses of validity. This course presents the basic elements of modern symbolic logic for the beginning student.

AS/PHIL 2110 3.0 Truth, Theory and Superstition. There are diverse views on how to improve one’s understanding or to do research, even in the case of science. This course investigates the possibility of a method of science and also recent contributions to its theory.

Cross-listed to: AK/PHIL 2110 3.0.

AS/PHIL 2120 3.0 Existentialism. This course is an introduction to some of the central themes of existentialism, for example, the meaning of life, being, the absurd, freedom, moral choice. These themes are explored in the work of philosophers such as Kierkegaard, Nietzsche, Camus, Sartre, de Beauvoir.

AS/PHIL 2130 3.0 Philosophy of Art and Literature. Is truth relevant to art? What connections are there between art and morality? Are aesthetic judgments purely subjective or is there an objective basis for them? What is the artist’s role in society?

Cross-listed to: AK/PHIL 2130 3.0.

AS/PHIL 2140 6.0 This course is an introduction to the basic issues and classic writers in the Western philosophical tradition. Areas such as ethics, metaphysics, theory of knowledge, and logic are surveyed by examining the writings of philosophers such as Plato, Aristotle, Descartes, Berkeley, Hume and more as well as modern writers.

Cross-listed to: AK/PHIL 1000 6.0.

Degree credit exclusion: AK/PHIL 1400 6.0.

AS/PHIL 1100 3.0 The Meaning of Life. This course explores a number of fundamental practical philosophical questions: What is the meaning of (my) life? What is happiness and how can I achieve it? What is wisdom? What is death and what does it mean to me?

Cross-listed to: AK/PHIL 1100 3.0.

2000-Level Courses

2000-level philosophy courses are introductory in nature (and thus open to all students), but they focus on specific areas of philosophy.

AS/PHIL 2010 3.0 Origins of Western Philosophy. The ancient Greek philosophers are the origin of modern Western thought. How did they construe reality, knowledge and humankind’s relation to the world? Philosophers such as Heraclitus, Parmenides, Zeno and Democritus will be explored.

Cross-listed to: AK/PHIL 2010 3.0.

AS/PHIL 2015 3.0 Plato and Aristotle. Plato and Aristotle are the pillars of Western philosophy. Practically all modern thought has its roots in their work. This course examines their writings and philosophy.

AS/PHIL 2020 3.0 Reason, God and the Mind. The works of Descartes, Spinoza and Leibniz are crucial building blocks of our contemporary understanding of the world. This course examines their work.
essentially non-essentialism systemic and overt sexism, and key philosophical writings in feminist philosophy.

Cross-listed to: AK/PHIL 2500 3.0.

AS/PHIL 2550 3.0 Introduction to Islamic Philosophy. This course explores the history and fundamental parameters of Islamic thought. Basic conceptual tools and terms applicable to Islamic philosophy are considered, as well as sociopolitical systems and Islamic responses to contemporary Western thought and postmodernity.

3000-Level Courses

3000-level philosophy courses have prerequisites on a course-by-course basis. The prerequisites may include a specific course or courses, or the completion of a specified number of philosophy credits. For more detailed information, please see below.

AS/PHIL 3020 3.0 Ethics. An advanced course in theoretical ethics, understood as covering both normative ethical theory and metaethics.

Prerequisite: At least one of the following: AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.

AS/PHIL 3030 3.0 Metaphysics. Metaphysics concerns such issues as the nature of reality, the existence of contingent and necessary truths, universals, perception and the nature of the external world.

Cross-listed to: AK/PHIL 3030 3.0.

Prerequisite: AS/PHIL 2080 3.0 or at least six credits in philosophy.

AS/PHIL 3035 3.0 Knowledge and Reality. Theories of knowledge, epistemology, are examined in relation to theories of reality. How does our perception of reality relate to our understanding of it? How can we come to know something is true or false?

Prerequisite: AS/PHIL 2080 3.0 or at least six credits in philosophy.

AS/PHIL 3040 3.0 Aesthetics. An examination from a contemporary philosophical perspective of problems concerning aesthetic experience, the nature of art, the structure and properties of works of art, creativity and appreciation, reasons and standards in art criticism.

Prerequisite: AS/PHIL 2130 3.0 or at least six credits in philosophy.

AS/PHIL 3050 3.0 Business Ethics. This course examines the role of ethics in private, public and voluntary sector economic activity, for example, the concept of a free market and the role of government regulation, governance issues, corporate social responsibility, ethics codes, globalization and cross-cultural codes and standards.

Prerequisite: At least one of the following: AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.

Degree credit exclusions: AS/PHIL 3025 3.0 (prior to Fall/Winter 2000-2001), AS/PHIL 4160 3.0 (prior to Fall/Winter 1988-1989), AK/PHIL 3560 3.0.

AS/PHIL 3080 3.0 Philosophy of Kant. “For the chief question is always simply this: what and how much can the understanding and reason know apart from all experience?” Kant’s answer revolutionized philosophy. It is given in the Critique of Pure Reason, which will be studied in detail.

Prerequisites: AS/PHIL 2020 3.0 and AS/PHIL 2025 3.0.

AS/PHIL 3095 3.0 Philosophy of Religion. How do theistic philosophies deal with the fact of evil? Is religious language and forms of knowing distinct from other forms? What are the moral and ethical issues inherent in religious propagation?

Cross-listed to: AK/PHIL 3095 3.0.

Prerequisite: AS/PHIL 2090 3.0 or at least six credits in philosophy.

AS/PHIL 3100 3.0 Classical Logic. Classical logic is that well-established part of philosophical logic which is sometimes taken as the foundation for rationality, as well as mathematics. This course begins to explore foundational concepts in metalogic, such as the notion of a logical system and the rigorous definition of a proof. It explores the ideas of the soundness and completeness of a logical system and introduces the incompleteness of arithmetic.

Prerequisite: AS/PHIL 2100 3.0 or permission of the instructor.

AS/PHIL 3101 3.0 Philosophy of Logic. This course studies issues relating the study of symbolic logic to ordinary language, including the nature of truth, the nature of sentences versus propositions, semantics for natural language (the Liar paradox, descriptions, reference, demonstratives) syntactical conceptions of inference versus semantic conceptions.

Prerequisite: AS/PHIL 2100 3.0 or permission of the instructor.

AS/PHIL 3105 3.0 Deviant Logics. An exploration of several systems of non-standard logic including modal logic, many-valued logic, and relevance logic. The deductive structure, consistency and completeness of the systems will be explored.

Prerequisite: AS/PHIL 2100 3.0 or permission of the instructor.

AS/PHIL 3110 3.0 Political Philosophy. The major contemporary theories of moral justification applied to these two fundamental questions of politics and economics: Is a state (instead of anarchy) morally justified? Is private (instead of communal) property morally justified?

Cross-listed to: AK/PHIL 3110 3.0.

Prerequisite: At least one of the following: AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.

AS/PHIL 3120 3.0 Early Existentialism. A detailed study of the early existentialist thinkers such as Sartre, Camus, Nietzsche and de Beauvoir have had a great impact on contemporary society. This course will explore their views on self, freedom, action and personal relations.

Cross-listed to: AK/PHIL 3125 3.0.

Prerequisite: AS/PHIL 2120 3.0 or permission of the instructor.

AS/PHIL 3140 3.0 Russell and Logical Positivism. The contribution of Bertrand Russell is extensive. This course examines his philosophy along with that of the early Wittgenstein and the Vienna Circle Positivists such as Carnap, Schlick and Ayer.

Prerequisite: At least six credits in philosophy.

AS/PHIL 3145 3.0 Wittgenstein’s Philosophical Investigations. A critical examination of the philosophic writings of the later Wittgenstein through an examination of his most crucial work, The Philosophical Investigations.

Prerequisite: At least six credits in philosophy.

AS/PHIL 3170 3.0 Philosophy of Science. The philosophy of science explores the fundamental assumptions and methodologies of science, as well as examining its history. Topics to be discussed may include the nature of scientific theories, the problem of induction and theories of probability, the demarcation and growth of scientific knowledge.

Prerequisite: At least six credits in philosophy.

AS/PHIL 3180 3.0 Conversations with African Philosophy. This course examines the development of African philosophy in the 20th century. It focuses on the debates among African philosophers regarding the nature of philosophical problems, and studies the emergence of various schools of thought in ethics, epistemology, and ontology.

Prerequisite: At least six credits in philosophy.

AS/PHIL 3200 3.0 Philosophy of Language. This course provides an introduction to basic notions of the philosophy of language. Questions to be discussed may include: How is communication in language possible? What is a language? What makes words and phrases meaningful? What is truth?

Cross-listed to: AK/PHIL 3200 3.0.

Prerequisite: At least six credits in philosophy.

AS/PHIL 3220 3.0 Argumentation Theory. Dispute and argument have been studied by philosophers since ancient times. This course examines the nature of dispute in the context of
both the history of philosophy and modern research.
Prerequisite: At least six credits in philosophy. AS/PHIL 2100 3.0 is recommended.

AS/PHIL 3260 3.0 Philosophical Foundations of Cognitive Science. An introduction to philosophical issues in the foundations of cognitive science, an interdisciplinary field made up of psychology, neuroscience, computer science and artificial intelligence, linguistics and philosophy. The course covers the main philosophical issues and debates associated with this field.
Cross-listed to: AK/PHIL 3595 3.0.
Prerequisite: At least six credits in philosophy, including one of: AS/PHIL 2160 3.0 or AS/PHIL 2240 3.0.
Degree credit exclusion: AS/PHIL 3260 3.0.

AS/PHIL 3265 3.0 Philosophy of Mind. How can we understand the relation between mind and body? How do mental states get their meaning? What is consciousness? Other topics may be discussed, such as: human agency, self-knowledge, unity of self, rationality of emotion, language and mind.
Prerequisite: At least six credits in philosophy, including one of: AS/PHIL 2160 3.0 or AS/PHIL 2240 3.0.
Degree credit exclusion: AS/PHIL 3260 3.0 (prior to Fall/Winter 2000-2001).

AS/PHIL 3270 3.0 Philosophy of Social Science. This course provides an introduction to central ideas in the philosophy of social science. Topics for discussion may include: the debate concerning naturalism in social science, human rationality, scientism and functionalism.
Prerequisite: At least six credits in philosophy.

AS/PHIL 3280 3.0 Mind and Nature: The Philosophy of Biology. This course concerns philosophical issues arising from the life sciences, in particular evolutionary theory and neuroscience. Topics examined may include: What is it that makes something living? What does the Darwinian theory of evolution mean for the understanding of human nature? Are religion and the theory of evolution compatible or irreconcilable?
Prerequisite: At least six credits in philosophy. AS/PHIL 2160 3.0 or AS/PHIL 2240 3.0 is recommended.

AS/PHIL 3500 6.0 Philosophy and Feminism. This course studies the history of feminist philosophical thought about the place women are to occupy in a man's world, and examine some contemporary feminist writings on reason, morality, scientific methodology and/or political theory.
Prerequisite: At least six credits in philosophy.

AS/PHIL 3595 3.0 International Ethics. This course examines the role of norms in the analysis of international relations, in particular as they apply to foreign actor involvement in conflicts within states, thus, issues such as massive human rights violations, ethnic cleansing, genocide and the norms governing intervention by international, state and non-state actors. Extensive case study material is used rooted in the civil wars of the nineties.
Cross-listed to: AK/PHIL 3595 3.0.
Prerequisites: At least three credits chosen from AS/PHIL 2050 6.0, AS/PHIL 2060 3.0, AS/PHIL 2070 3.0 or AS/PHIL 2075 3.0.

AS/PHIL 3600 3.0 Ancient Philosophy. This course involves a careful reading from selected texts in ancient philosophy. Writings are drawn from the Pre-Socratics, Plato, Aristotle and others.
Prerequisite: At least one of: AS/PHIL 2010 3.0 or AS/PHIL 2015 3.0.

AS/PHIL 3620 3.0 Empiricism and Rationalism. The empiricists and Rationalists include such eminent philosophers as Hume, Descartes, Berkeley, and Locke, among others. This course examines selected readings from one or more representatives of each tradition.
Prerequisite: At least six credits in philosophy.

AS/PHIL 3640 3.0 German Philosophy. German philosophy has had a profound impact on Western philosophy. In this course philosophers such as Hegel and Husserl, to mention but two, are examined in some detail.
Cross-listed to: AK/PHIL 3640 3.0.
Prerequisite: At least six credits in philosophy.

AS/PHIL 3690 3.0 Post-Modernist Philosophy. An examination of the works of philosophers identified with the Post-Modernist critique of culture and philosophy; for example, Derrida, Deleuze, Foucault, Rorty, Irigaray, Heidegger, Baudrillard and Kristeva.
Cross-listed to: AK/PHIL 3690 3.0.
Prerequisite: A 1000-level general education mathematics or modes of reasoning course.
Degree credit exclusion: AS/PHIL 3900C 3.0.
Note: Not open to students who have taken AK/PHIL 3690 6.0 or AK/PHIL 4030G 6.0.

AS/PHIL 3750 3.0 Foundations of Artificial Intelligence. This course examines Artificial Intelligence (AI) as a framework for modeling and analyzing fundamental ideas about the nature of intelligence and cognition in general. Topics include the exploration of computer models for concepts such as remembering, learning, inference, and affect.
Prerequisite: At least six credits in philosophy, or permission of the instructor.
Note: This course is not open to any student who has successfully completed or who is taking AK/AS/SC/COSC 3402 3.0, AK/AS/SC/COSC 4401 3.0, or AK/AS/SC/COSC 4402 3.0.
Note: Internet access is required for this course.

4000-Level Courses
All 4000-level philosophy courses have a general prerequisite of at least nine credits in philosophy. Some courses also have specific prerequisites. For more detailed information, please see below.

AS/PHIL 4000 3.0/4000 6.0 Directed Readings. A full-year (or half-year course in either term) course of independent reading under the direction of a member of the faculty. This course is only considered when a student has completed all listed courses in the area of study. Agreement of the supervising faculty member must be obtained prior to registration.
Prerequisites: 84 credits, at least 30 of which are in philosophy.
Note: Please consult the Faculty of Arts Academic Advising and Student Responsibility section for regulations on independent reading courses.
Note: All fourth-year level courses are topics courses. Please consult the departmental annual mini-calendar for specifics.

AS/PHIL 4010 3.0 Topics in Historical Philosophy. An intensive examination of problems and historical issues in philosophy. Topics vary from year to year.
Prerequisite: At least nine credits in philosophy.

AS/PHIL 4011 3.0 Topics in the History of Modern Philosophy. This seminar course discusses the work of one or more philosophers of the modern period. Topics vary from year to year.
Prerequisite: At least nine credits in philosophy.

AS/PHIL 4020 3.0 Topics in Medieval Philosophy. A seminar course in medieval epistemology and metaphysics. Texts may include selections from St. Augustine, St. Anselm and St. Thomas.
Prerequisite: At least nine credits in philosophy.

AS/PHIL 4030 3.0 Topics in Ancient Philosophy. A seminar course in ancient epistemology and metaphysics. Texts may include Selected Dialogues from Plato, Aristotle’s Organon and Metaphysics.
Prerequisite: At least nine credits in philosophy.

AS/PHIL 4040 3.0 Topics in Contemporary Philosophy. An intensive examination of problems and contemporary issues in philosophy. Topics vary from year to year.
Prerequisite: At least nine credits in philosophy.

AS/PHIL 4050 3.0 Topics in the Philosophy of History. The course discusses some of the central philosophical problems arising out of historical knowledge: truth, objectivity, facts, explanation. The main emphasis will be on the controversy over “covering laws” and on that between realists and idealists.
Prerequisite: At least nine credits in philosophy. AS/PHIL 3270 3.0 is recommended.

AS/PHIL 4070 3.0 Topics in Moral Philosophy. An intensive examination of particular problems in moral philosophy, or intensive studies of the writings of individual
moral philosophers. Topics vary from year to year.

Prerequisite: At least nine credits in philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.

AS PHIL 4071 3.0 Seminar in Moral Philosophy: Kant’s Moral Theory. An intensive study of two of Kant’s central works in moral philosophy.

Prerequisite: At least nine credits in philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.

Degree credit exclusion: AS/PHIL 4070M 3.0.

AS PHIL 4072 3.0 Seminar in Ethics: Ethical Theory. An intensive study of the main problems in contemporary ethical theory and their treatment by contractarianism, Kantian theories, consequentialism, and virtue theories.

Prerequisite: At least nine credits in philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.

AS PHIL 4073 3.0 Seminar in Ethics: Metaethics. An intensive study of the main problems in contemporary metaethics including the meaning of moral judgements, the possibility of moral truth, and our reasons to act morally.

Prerequisite: At least nine credits in philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.

AS PHIL 4080 3.0 Topics in the Philosophy of Mind. A selection of the following topics are discussed: mind and body, thinking, intention, emotions, desires, motives, reasons, dispositions, memory, the unconscious, and the concept of a person.

Prerequisite: At least nine credits in philosophy including AS/PHIL 3280 3.0.

AS PHIL 4081 3.0 Seminar in the Philosophy of Mind: Buddhism and Cognitive Science. A comparative philosophical investigation of the theories and methods used for investigating the nature of the mind in Buddhist psychology and Western cognitive science (psychology and neuroscience).

Prerequisite: At least nine credits in philosophy including at least three credits from the following: AS/PHIL 3280 3.0 or AS/PHIL 3285 3.0.

AS PHIL 4082 3.0 Seminar in the Philosophy of Mind: Philosophy of Perception. An investigation of metaphysical and epistemological issues about perception. What is the nature of perceptual experience and knowledge? How can one fit an account of perception into a broader account of the nature of the mind and the world?

Prerequisite: At least nine credits in philosophy including at least three credits from the following: AS/PHIL 3280 3.0 or AS/PHIL 3285 3.0.

AS/PHIL 4090 3.0 Topics in Metaphysics. An intensive investigation into issues concerning the nature of reality and existence. Focus is on selected issues or the work of particular metaphysicians. Topics vary from year to year.

Prerequisite: At least nine credits in philosophy including three credits from: AS/PHIL 3030 3.0 or AS/PHIL 3035 3.0.

AS/PHIL 4110 3.0 Topics in the Philosophy of Science. The course deals with situations in science and in the history of science that give rise to the basic problems of the philosophy of science. The role of observation in science. The criteria of truth in science.

Prerequisite: At least nine credits in philosophy.

Recommended: AS/PHIL 3170 3.0 or AS/PHIL 3270 3.0 or AS/PHIL 3280 3.0.

AS/PHIL 4120 3.0 Topics in Existentialism. An intensive study of selected works of such thinkers as Pascal, Kierkegaard and Sartre. Topics include idealism and realism, freedom, the self and others.

Prerequisite: At least nine credits in philosophy including one of: AS/PHIL 3120 3.0 or AS/PHIL 3125 3.0.

AS/PHIL 4130 3.0 Topics in the Philosophy of Nature. Topics in the history of concepts of nature in Western philosophy going back from Kant’s Critique of Judgment to aspects of Greek thought and forward to Hegel’s philosophy of nature and to contemporary conceptions, particularly systems theory.

Prerequisite: At least nine credits in philosophy.

Recommended: AS/PHIL 3170 3.0 or AS/PHIL 3270 3.0 or AS/PHIL 3280 3.0.

AS/PHIL 4140 3.0 Topics in Aesthetics. A critical examination of recent problems in aesthetics concerning the representative function of works of art. Specific topics include the semantic theory of representation; transcription, translation and the making of equivalent structures in art; picturing, symbolizing and artistic vision.

Prerequisite: At least nine credits in philosophy.

Recommended: AS/PHIL 3040 3.0.

AS/PHIL 4150 3.0 Professional Ethics. The course focuses on a theme such as justice, diversity, identity, resources or rights, which will be explored as it impacts on some areas in professional ethics such as international ethics, health ethics, business ethics, and environmental ethics.

Cross-listed to: AK/PHIL 4150 3.0, GS/PHIL 5250 3.0.

Prerequisites: 78 credits, or permission of the coordinator of philosophy.

Degree credit exclusion: AS/PHIL 4150 3.0 (Fall/Winter 2001-2002).

AS/PHIL 4180 3.0 Topics in Political Philosophy. An intensive study of some selected normative and conceptual problems in contemporary political philosophy.

Prerequisite: At least nine credits in philosophy including at least three credits from the following: AS/PHIL 3020 3.0, AS/PHIL 3025 3.0, AS/PHIL 3050 3.0, AS/PHIL 3110 3.0 or AS/PHIL 3130 3.0.

AS/PHIL 4200 3.0 Topics in Semantics. The study of semantics is at the root of philosophical logic, as well as the philosophy of language and linguistics. This course studies a topic in this central area of philosophical inquiry.

Prerequisite: At least nine credits in philosophy.

AS/PHIL 4220 3.0 Topics in Argumentation Theory. An intensive examination of one or more theories of argument. These may include field theory, critical thinking and pragma-dialectic approaches.

Prerequisite: At least nine credits in philosophy.

AS/PHIL 4221 3.0 Topics in Argumentation Theory: Recent Writings in Argumentation Theory. This course explores recent works in argumentation theory deriving from both the dialectical and rhetorical perspectives. The approaches, theoretical similarities and differences between these two perspectives are considered.

Prerequisite: At least nine credits in philosophy.

AS/PHIL 4230 3.0 Topics in Epistemology. Selected topics in the theory of knowledge are explored in depth.

Prerequisite: At least nine credits in philosophy including three credits from: AS/PHIL 3030 3.0 or AS/PHIL 3035 3.0.

AS/PHIL 4250 3.0 Topics in the Philosophy of Film. This course is concerned with the aesthetics and ontology of film as a form of art and human expression. Particular concentration varies from year to year.

Prerequisite: At least nine credits in philosophy.

AS/PHIL 4350 3.0 Topics in the Philosophy of Language. This course explores a topic in the philosophy of language. The topic will vary from year to year.

Prerequisite: At least nine credits in philosophy including one of: AS/PHIL 3200 3.0 or AS/PHIL 2040 3.0 (prior to Fall/Winter 1999-2000).

AS PHIL 4351 3.0 Seminar in the Philosophy of Language: Logical Truth. This course examines the concept of logical truth in modern philosophy.

Prerequisite: At least nine credits in philosophy including AS/PHIL 2100 3.0.
AS/PHIL 4450 3.0 Topics in Philosophical Logic. This course provides an intensive examination of a selected area of philosophical logic. Topics will vary from year to year. Proerequisite: At least nine credits in philosophy including three credits chosen from: AS/PHIL 3100 3.0 or AS/PHIL 3105 3.0.

AS/PHIL 4500 3.0 Topics in Feminist Philosophy. An intensive study of recent feminist writings in one or more of the following areas: aesthetics, epistemology, ethics, political philosophy, philosophy of science, philosophy of the social sciences, theories of subjectivity, philosophy of language, theories of rationality. Prerequisite: At least nine credits in philosophy. Recommended: AS/PHIL 3500 6.0.

AS/PHIL 4900 6.0 Honours Seminar. The focus of this course will vary from year to year. Please consult the philosophy supplemental calendar for further information. Prerequisite: At least 18 credits in philosophy.

General Certificate in Practical Ethics
York University students may earn a General Certificate in Practical Ethics in addition to fulfilling the requirements for a bachelors degree. Practical ethics is an exciting new area of multidisciplinary study and research which provides the opportunity to apply ethical concepts and principles to contemporary social issues. The courses offered as part of the General Certificate in Practical Ethics enable students to address questions of applied ethics and public policy in the fields of anthropology, economics, environmental studies, humanities, philosophy, political science, social science and sociology.

To qualify for the General Certificate in Practical Ethics, students must complete 24 credits from the list of Certificate courses and the cumulative grade point average on these 24 credits must be at least 5.0 (C+).

Students must register for the certificate and written approval of a member of the advisory group for the certificate must be obtained. Such approval is conditional on the student submitting an acceptable written justification of their intended course selection. Equivalent courses must be approved by the coordinator. Students must indicate their intention to pursue the certificate by completing an enrolment form available from the Philosophy Department.

For certificate requirements please refer to the Faculty of Arts Programs of Study section of this Calendar.

Required Courses:
AS/PHIL 2070 3.0 Introductory Ethics.
AS/PHIL 2075 3.0 Introduction to Applied Ethics.

Designated Courses in Practical Ethics:
For course descriptions, please refer to the appropriate departmental/divisional listings in this Calendar or the relevant departmental/divisional supplemental calendar.

Note: For purposes of meeting certificate requirements, all foundations courses will count as six credits.

Anthropology
AS/ANTH 3020 6.0 Race, "Racism" and Popular Culture.
AS/ANTH 3090 6.0 Modes of Enablement: A Cultural Perspective on Physical Disability.
AS/ANTH 3000 6.0 Gender, Science and Society.
AS/ANTH 3160 6.0 Family and Kinship in Comparative Perspective.
AS/ANTH 3230 6.0 Women, Culture and Society.
AS/ANTH 3280 6.0 Psychiatric Anthropology and Social Stress.
AS/ANTH 3330 6.0 Health and Illness in Cross-Cultural Perspective.
AS/ANTH 3360 6.0 The Politics of Power.
AS/ANTH 3410 6.0 Ethnicity and Nationalism.
AS/ANTH 4030 6.0 Intercultural Training Skills.

Economics
AS/ECON 4259 3.0 Health Economics.
AS/ECON 4309 3.0 Law and Economics.
AS/ECON 4379 3.0 Regulatory Economics.
AS/ECON 4399 3.0 Topics in Law and Economics.

Environmental Studies
ENVS 2300 3.0 Foundations of Global Development, Peace and Justice.
ENVS 2400 3.0 Foundations of Environmental Policy and Action.
ENVS 3000 3.0 Environmental Ethics.
ENVS 3420 3.0 Environmental Law.
ENVS 3440 3.0 Resource Management.
ENVS 4140 3.0 Environmental Thought.
ENVS 4311 3.0 Global Justice and the Environment (cross-listed to: AS/POLS 4311 3.0).
ENVS 4410 3.0 Environmental Policy I.

Humanities
AS/HUMA 1810 6.0 Good and Evil.
AS/HUMA 1820 6.0 Ideology and Morality.
AS/HUMA 2740 6.0 Film, Television and Society (cross-listed to: FA/FILM 2401 6.0).
AS/HUMA 2840 6.0 Perspectives on Contemporary Moral Issues.
AS/HUMA 3450 6.0 Queer Desire, Gay Representation.
AS/HUMA 3850 6.0 The Final Solution: Perspectives on the Holocaust.
AS/HUMA 3950 6.0 Gender and Morality: Feminist Challenges to the Tradition.
AS/HUMA 3960 6.0 Mothering and Motherhood.
AS/HUMA 3970 6.0 Science and Gender in Modern Western Society.
AS/HUMA 4229 6.0 Eugenics in Cultural Context.
AS/HUMA 4816 6.0 Women in Islamic Literatures.

Philosophy
AS/PHIL 2050 6.0 Philosophy of Law.
AK/AS/PHIL 2060 3.0 Social and Political Philosophy.

AS/PHIL 2250 3.0 Philosophy of Gender and Sexuality (cross-listed to: AK/PHIL 2250 3.0).
AS/PHIL 3020 3.0 Ethics.
AS/PHIL 3050 3.0 Business Ethics.
AK/AS/PHIL 3110 3.0 Political Philosophy.
AS/PHIL 3130 3.0 Philosophical Issues around Race and Ethnicity.
AS/PHIL 3220 3.0 Augmentation Theory.
AS/PHIL 3500 6.0 Philosophy and Feminism.
AS/PHIL 3595 3.0 International Ethics.
AS/PHIL 4070 3.0/4070 6.0 Topics in Moral Philosophy.
AK/PHIL 4150 3.0 Professional Ethics.

Political Science
AS/POLS 3065 3.0 Political Culture of Race and Racism.
AS/POLS 3230 3.0 Global Issues in Foreign Policy.
AS/POLS 3280 3.0 Canada and World Affairs.
AS/POLS 3450 3.0 Women and Politics (cross-listed to: AS/SOSC 3170 3.0, AK/AS/GL/WMST 3516 3.0).
AS/POLS 3455 3.0 Topics in Women and Politics (cross-listed to: AS/POLS 3175 3.0).
AS/POLS 4000 3.0 Politics of Cyberspace.
AS/POLS 4004A 3.0 The Philosophy of Toleration.
AS/POLS 4045 3.0 Ecology, Politics and Philosophy.
AS/POLS 4210 3.0 Peace Research.
AS/POLS 4311 3.0 Global Justice and the Environment (cross-listed to: ES/ENVS 4311 3.0).
AS/POLS 4440 3.0 Human Rights in Europe and Canada.
AS/POLS 4605 3.0 Ethical Politics.
AS/POLS 4620 3.0 Health Policy in Canada.
AS/POLS 4625 3.0 Issues in Canadian Health Policy.
AS/POLS 4810 3.0 Social Justice and Political Activists.

Social Science
AS/SOSC 2350 6.0 Law and Society.
AS/SOSC 3030 6.0 Crime and Punishment in Selected Western Societies.
AS/SOSC 3050 6.0 Methodological and Ethical Issues.
AS/SOSC 3090 6.0 Medicine and North American Society in Historical Perspective.
AS/SOSC 3111 3.0/3110 6.0 Special Topics in Health and Society.
AS/SOSC 3170 3.0 Women and Politics (cross-listed to: AS/POLS 3450 3.0, AK/AS/GL/WMST 3516 3.0).
AS/SOSC 3175 3.0 Topics in Women and Politics (cross-listed to: AS/POLS 3455 3.0).
AS/SOSC 3300 6.0 The Mass Media, Culture and Society: The Canadian Case.
AS/SOSC 3360 6.0 The Canadian Charter of Rights and Freedoms.
AS/SOSC 3370 6.0 Social Justice and Law.
AS/SOSC 4050 6.0 Animals and People.
AS/SOSC 4350 6.0 Law and Society Seminar.
Sociology
AS/SOCI 3420 6.0 Population and Society.
AS/SOCI 3430 6.0 Race and Ethnic Relations in Western Society.
AS/SOCI 3450 6.0 Sociology of “Race” and Racism.
AS/SOCI 3630 6.0 Sociology of Education.
AS/SOCI 3660 6.0 Sociology of the Family.
AS/SOCI 3690 6.0 Sociology of Gender.
AS/SOCI 3710 6.0 Environmental Sociology.
AS/SOCI 3810 6.0 Sociology of Crime and Delinquency.
AS/SOCI 4300 3.0 Sociology of Health Care Delivery.
AS/SOCI 4440 6.0 Race, Minorities and the Legal Order.
AS/SOCI 4810 6.0 Women and the Criminal Justice System.

Physics and Astronomy – Pure and Applied Science

Department Office:
128 Petrie, 416-736-5249
Chair of the Department:
R.H. Prince
Distinguished Research Professor Emeritus:
R.W. Nicholls
Professors:
Professors Emeriti:
Associate Professors:
Associate Professor Emeritus:
J.A. Burt, F.J. Morgan
Assistant Professor:
B.M. Quinn
Senior Lecturers:
P.A. Delaney, S. Jerzak, S.B. Joshi

Physics and astronomy are quantitative sciences which employ the scientific method of observation, experiment and systemization of the results of experiment. Their objectives are to seek to understand the ways in which the most fundamental or elementary systems in nature really operate.

Courses in the Department of Physics and Astronomy cover basic elements of the major topics delineated during the last 200 years in these rapidly developing fields of knowledge. There are certain required courses (see the program of study requirements in the Faculty of Pure and Applied Science Programs of Study section of this Calendar) which expose each student to the broad spectrum of physical phenomena and in an elementary way to the techniques of the theoretical physicist or astronomer in numerical analysis and modelling and of the experimental physicist or observational astronomer in measurement, observation and the apparatus of experiment. In developing programs of 3000- and 4000-level courses, students may concentrate their interests around experimental physics, theoretical physics, or astronomy and astrophysics. There are opportunities to develop Honours Double Major and Honours Major/Minor programs with other disciplines in the Faculty of Pure and Applied Science or in other Faculties.

The department offers Specialized Honours Applied Science Streams in Applied Physics and in Space and Cosmic Astronomy, developed to meet the needs of rapidly expanding technologies in these fields. The requirements for these streams are found in the Faculty of Pure and Applied Science Programs of Study section of this Calendar. A brochure giving detailed course descriptions and typical program prescriptions for all programs involving physics and astronomy is available on request from the department office.

Courses in Physics and Astronomy

Admission to any course beyond the 1000 level requires consultation with a member of the departmental admissions committee. Normally, entry to courses at the 3000 and 4000 levels requires successful completion of all lower-level courses that are required for degree programs in Physics and Astronomy. The prerequisites and corequisites stated for certain courses indicate the standard of background preparation deemed necessary for those not taking bachelor or Honours Physics and Astronomy programs. The course director should be consulted by potential entrants who have not completed the normal entry requirements of the department.

Physics and astronomy courses are of two types: those whose numbers end in “0” (i.e. six-credit courses) have three lecture hours per week for two terms when taught in a fall/winter session; those whose numbers end in “3” (i.e. three-credit courses) have three lecture hours per week for one term. Courses offered in the evening and/or in a summer session may have different formats and scheduling, though they will be equivalent in credit value.

SC/PHYS 1010 6.0 Physics. Topics include linear, rotational and oscillatory motion; Newtonian mechanics; electrostatics; magnetostatics; electric current and induction; heat; geometrical and physical optics and sound. Differential and integral calculus and vector algebra are used. This course covers fewer topics than SC/PHYS 1410 6.0, but covers them in greater depth. It should be taken by all those likely to enrol in 2000-level physics courses. Three lecture hours per week in the first term, two lecture hours per week in the second term; three laboratory hours in alternate weeks in both terms; one tutorial hour each week in both terms.
Prerequisite: OAC physics or SC/PHYS 1510 4.0.
Corequisite(s): AS/SC/MATH 1013 3.0 and AS/SC/MATH 1014 3.0 and AS/SC/MATH 1025 3.0, or AS/SC/MATH 1505 6.0, or equivalents.
Degree credit exclusions: SC/PHYS 1410 6.0, AK/PHSI 2000 6.0.

SC/PHYS 1070 3.0 Astronomy. An introduction to astronomy for science majors. The course gives an overview of basic astronomical knowledge from the solar system to the edge of the Milky Way and basic astronomical concepts from white dwarfs to black holes.
Prerequisite: OAC physics or SC/PHYS 1510 4.0.
Prerequisite or corequisite: AS/SC/MATH 1013 3.0 or AS/SC/MATH 1505 6.0 or equivalent.

SC/PHYS 1410 6.0 Physical Science. Topics include kinematics, dynamics, momentum and energy for linear and rotational motion; elementary kinetic theory and thermodynamics; static and current electricity; waves and physical and geometrical optics, elements of modern physics. Recommended for students unlikely to enrol in 2000-level physics courses. Three lecture hours per week in the first term, two lecture hours per week in the second term; three laboratory hours in alternate weeks in both terms; one tutorial hour each week in both terms.
Prerequisite: OAC physics or SC/PHYS 1510 4.0.
This is a calculus-based course making use of elementary differential and integral calculus. While not mandatory, a first-year mathematics course involving calculus, such as AS/SC/MATH 1013 3.0 and AS/SC/MATH 1014 3.0 or AS/SC/MATH 1505 6.0, is normally taken concurrently.
Coregistration in AS/SC/MATH 1515 3.0 or AS/SC/MATH 1505 6.0 is strongly recommended for students lacking OAC calculus.
Degree credit exclusions: SC/PHYS 1010 6.0, AK/PHSI 2000 6.0.

SC/PHYS 1510 4.0 Introduction to Physics. An introductory course for students lacking adequate preparation for SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0. Topics involve Newton's laws applied to linear and angular motion, force, inertia, torque, impulse, momentum, centre of mass, work, energy, oscillatory motion, geometric optics (including lenses and mirrors). No calculus is used, but vectors are used extensively. Three lecture hours per week, a laboratory session alternating weekly with a tutorial session. One term.
Prerequisite: Ontario Grade 12 advanced mathematics.
Degree credit exclusions: AK/PHSI 1500 3.0. May not be taken by any student who has taken or is currently taking another university course in physics.

SC/PHYS 2010 3.0 Classical Mechanics. Translational motion of point masses and rigid bodies under the influence of both constant and varying forces (e.g. fluid drag, surface gravity on Earth). Rotational motion of point masses and rigid bodies, including cyclical motion and precession.
SC/PHYS 2020 3.0 Electricity and Magnetism. The elements of electric and magnetic fields are developed together with DC and AC circuit theory and an introduction to electromagnetic waves.

Prerequisites: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 1014 3.0 or equivalent; AS/SC/MATH 1025 3.0 or equivalent.

SC/PHYS 2030 3.0 Symbolic Computation in Physics. The Maple symbolic computing environment is used to solve problems from classical and modern physics, fluids, heat and electromagnetics at a level comparable to and above that of SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0.

Prerequisites: SC/PHYS 1010 6.0 or SC/PHYS 1410 6.0; AK/AS/SC/COSC 1540 3.0; AS/SC/MATH 1014 3.0 or equivalent.
Corequisite: AS/SC/MATH 2015 3.0 or equivalent.

SC/PHYS 2040 3.0 Special Relativity and Modern Physics. This course introduces the two pillars of modern physics — the special theory of relativity and quantum mechanics. The relativistic concepts of space, time and energy are derived from first principles. The quantum nature of radiation and matter is introduced.

Prerequisites: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 1025 3.0 or equivalent.
Prerequisites or corequisites: It is strongly recommended that SC/PHYS 2010 3.0 and SC/PHYS 2020 3.0 be taken in the same year as this course.

SC/PHYS 2060 3.0 Optics and Spectra. An introductory course in optics covering the following topics: wave nature of light, reflection, refraction, spherical mirrors and lenses, interference, diffraction, polarization, introduction to lasers.

Prerequisites: SC/PHYS 1010 6.0, or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 1025 3.0 or equivalent.

SC/PHYS 2070 3.0 Galaxies and the Universe. An introduction to the structure, evolution and origin of galaxies, aggregates of galaxies and the universe as a whole. Frontier topics such as quasars, the great attractor, the cosmic web, gravitational lensing, primeval galaxies and black holes are included.

Prerequisite: SC/PHYS 1070 3.0, or SC/NATS 1740 6.0 and permission of the instructor.

SC/PHYS 2211 1.0 Experimental Physics. An introductory course for second-year students. The course consists of 10 experiments covering basic concepts of electromagnetism. Normally three laboratory hours per week. One term. One credit.

Prerequisite: SC/PHYS 2210 1.0; SC/PHYS 2210A 1.0.

SC/PHYS 2212 1.0 Experimental Physics. An introductory laboratory course based on lasers and modern optics. Includes different experiments than those completed in SC/PHYS 2211 1.0. Normally three laboratory hours per week. One term. One credit.

Prerequisite: SC/PHYS 2211 1.0.
Corequisite(s): At least one of SC/PHYS 2010 3.0, SC/PHYS 2020 3.0, SC/PHYS 2060 3.0.
Degree credit exclusion: SC/PHYS 2210M 1.0.

SC/PHYS 3001 1.0 Organization and Management Seminar in Space and Communication Sciences. A seminar course taught by guest speakers from industry, government and the University. Content changes from year to year, but includes such topics as professional ethics, communications regulations, space law, space science policy, project management, privacy and security issues in computing. One lecture hour in alternate weeks. Two terms.

Cross-listed to: SC/COSC 3001 1.0, SC/EATS 3001 1.0.
Prerequisite: Eligibility to proceed in the Specialized Honours Stream in Space and Communication Sciences beyond the 2000-level requirements, or permission of the course director.
Degree credit exclusions: SC/COSC 3001 1.0, AS/SC/COSC 3002 1.0, SC/EATS 3001 1.0.


Prerequisites: SC/PHYS 2211 1.0; AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0.
Prerequisites or corequisites: At least one of SC/PHYS 2010 3.0 or equivalent.

SC/PHYS 3020 3.0 Electromagnetics I. Vector calculus; electrostatic and magnetostatic fields, derived from charge and current distributions studied in vacuum and in material media.

Prerequisites: SC/PHYS 2020 3.0; AS/SC/MATH 2270 3.0.
Prerequisite or corequisite: SC/PHYS 3271 3.0.


Prerequisites: SC/PHYS 2010 3.0; SC/PHYS 2020 3.0.

SC/PHYS 3040 6.0 Modern Physics. Survey of the basis of contemporary physics: introduction to quantum theory of light, atoms, molecules, solids, nuclei, elementary wave mechanics and elementary particles.

Prerequisites: SC/PHYS 2010 3.0; SC/PHYS 2020 3.0; SC/PHYS 2040 3.0; SC/PHYS 2211 1.0; AK/AS/SC/MATH 2270 3.0.

SC/PHYS 3050 3.0 Electronics I. Introduction to physical electronics including DC and AC circuit theory and network analysis; bandpass filters; introduction to the p-n junction and semiconductor devices: diodes, DC power supplies, transistors, analysis and design of basic amplifiers, operational amplifiers. With laboratory exercises. Two lecture hours, three laboratory hours. One term.

Prerequisites: SC/PHYS 2020 3.0; SC/PHYS 2211 1.0.

SC/PHYS 3070 3.0 Planets and Planetary Systems. Survey of planetary astrophysics. Specific emphases vary, but an overview of planetary observations and current knowledge concerning the atmospheres and interiors of planets and the formation and evolution of planets and planetary systems is presented. Normally offered in alternate years.

Prerequisite: At least one of SC/PHYS 1070 3.0, SC/EATS 1010 6.0 or both SC/EATS 1010 3.0 and SC/EATS 1011 3.0, SC/EATS 2030 3.0; or permission of the instructor.

Prerequisites or corequisites: AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0; or permission of the instructor.

SC/PHYS 3080 3.0 Atmospheric Radiation and Thermodynamics. Applications of basic thermodynamic principles to dry and moist atmospheric situations. Aerological diagrams illustrating vertical structure. Solar (short wave) and terrestrial (long wave) radiation with respect to absorption and scattering processes involving atmospheric atoms, molecules, aerosol particles and clouds.

Cross-listed to: SC/EATS 3030 3.0.
Prerequisites: SC/PHYS 1010 6.0 or a minimum grade of C in SC/PHYS 1410 6.0; AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0.

Degree credit exclusion: SC/EATS 3030 3.0.

SC/PHYS 3150 3.0 Electronics II. The concept of feedback and its use in circuits employing operational amplifiers; analysis/ design of such circuits, including amplifiers, filters, oscillators, pulse generators; digital concepts and logic circuits with applications to data manipulation (computers) and storage. Laboratory exercises and project. Two lecture hours, three laboratory hours. One term.

Prerequisite: SC/PHYS 3050 3.0.

SC/PHYS 3210 6.0 Experimental Physics. Experiments are performed in fluid mechanics, electromagnetism, optics, atomic and nuclear physics. Error analysis of the data and detailed write-ups of at least nine experiments are required. Students are required to present a seminar on a research topic to the class. One lecture/seminar hour per week, open laboratory hours. Two terms.
Prerequisites: SC/PHYS 2211 1.0; SC/PHYS 2212 1.0.
Corequisite: SC/PHYS 3040 6.0.
Degree credit exclusion: SC/PHYS 3220 3.0.

SC/PHYS 3220 3.0 Experimental Physics. A three-credit version of SC/PHYS 3210 6.0 comprising a selection of the experiments in the latter course. These are chosen in consultation with the course director to reflect the student’s particular program and background. One lecture/hour seminar per week, open laboratory hours. One term or equivalent.
Prerequisite: SC/PHYS 2211 1.0; SC/PHYS 2212 1.0 is recommended.
Corequisite: SC/PHYS 3040 6.0.
Degree credit exclusion: SC/PHYS 3210 6.0.

SC/PHYS 3250 3.0 Introduction to Space Communications. The course covers all aspects of communications between spacecraft and ground stations. Topics include orbits, perturbations and launching methods, the essential characteristics and components of satellites, interplanetary spacecraft and ground stations, transmission, reception and link equations and access to a satellite.
Prerequisite: SC/PHYS 2020 3.0.
Prerequisite or corequisite: SC/PHYS 3050 3.0.

SC/PHYS 3280 3.0 Physics of the Space Environment. An introduction to the physical processes of the upper atmosphere, the ionosphere, the magnetosphere and the heliosphere, and the interactions that occur with space vehicles that traverse these regions of space.
Cross-listed to: SC/EATS 3280 3.0.
Prerequisites: SC/PHYS 2020 3.0; SC/PHYS 2040 3.0.
Degree credit exclusion: SC/EATS 3280 3.0.

SC/PHYS 4001 6.0 Space and Communication Sciences Workshop. This course is intended to allow the student to carry out the development of a specific space project, under the supervision of a faculty member, a government scientist or an industrial associate. The equivalent of nine laboratory hours per week for two terms.
Cross-listed to: SC/COSC 4001 6.0, SC/EATS 4001 6.0.
Prerequisite: Satisfactory completion of the 3000-level courses in the space and communication sciences core.
Degree credit exclusions: SC/COSC 4001 6.0, SC/EATS 4001 6.0.

Prerequisite: SC/PHYS 3040 6.0.
Prerequisite(s) or corequisite(s): SC/PHYS 3020 3.0; AS/SC/MATH 3271 3.0.
Degree credit exclusion: SC/PHYS 4010 6.0.

Prerequisite: SC/PHYS 4010 3.0.
Degree credit exclusion: SC/PHYS 4010 6.0.

SC/PHYS 4020 3.0 Electromagnetics II. Time-dependent electric and magnetic fields, Maxwell’s differential equations in linear, isotropic, homogeneous conductors and dielectrics; the radiation and transmission of electromagnetic energy; relativistic transformation; scalar diffraction theory.
Prerequisite: SC/PHYS 3020 3.0; AS/SC/MATH 3271 3.0.

SC/PHYS 4040 3.0 Nuclear and Fundamental Particle Physics. The properties of fundamental particles (quarks and leptons), and the forces between them, are studied. Topics include the interactions of particles with matter, symmetry principles and experimental techniques. Properties of nuclear matter (e.g. radioactive decays, fission, fusion) are also investigated.
Prerequisites: SC/PHYS 3010 3.0; SC/PHYS 3020 3.0; SC/PHYS 4010 3.0.

SC/PHYS 4050 3.0 Solid State Physics. The structural, mechanical, thermal, electrical and magnetic properties of crystalline solids are studied.
Prerequisites: SC/PHYS 3030 3.0; SC/PHYS 4010 3.0.

Cross-listed to: SC/EATS 4020 3.0, AS/SC/MATH 4830 3.0.
Prerequisites: AK/AS/SC/COSC 1540 3.0 or equivalent FORTRAN programming experience; AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0.

SC/PHYS 4070 3.0 Stars and Nebulae. The astrophysics of radiating matter in the universe. The course covers radiation processes, radiative transfer, interstellar matter, stellar atmospheres and stellar interiors.
Prerequisites: SC/PHYS 3250 3.0; AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0.
Degree credit exclusion: AS/SC/MATH 4130B 3.0.

SC/PHYS 4110 3.0 Dynamics of Space Vehicles. The dynamics of spacecraft in the near Earth and deep space environments, including the classical theory of orbits, the effects of perturbations on satellite orbits, rocket propulsion, orbital manoeuvres and satellite attitude control.
Prerequisites: SC/PHYS 2010 3.0 or SC/EATS 2470 3.0; AS/SC/MATH 2270 3.0; AS/SC/MATH 3271 3.0 is strongly recommended.

SC/PHYS 4120 3.0 Gas and Fluid Dynamics. Fundamental laws; conservation of mass, momentum and energy; vortex motion; incompressible, compressible and viscous flows; turbulent flow; surface waves.
Cross-listed to: AS/SC/MATH 4470 3.0.
Prerequisites: SC/PHYS 2010 3.0 or SC/EATS 2470 3.0; AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0.
Degree credit exclusion: AS/SC/MATH 4470 3.0.

SC/PHYS 4210 3.0 Experimental Physics. Advanced experiments in physics related to topics in solid state physics, optical and microwave spectroscopy, and nuclear physics. Six open laboratory hours. One term.
Prerequisites: SC/PHYS 3210 6.0; registration in an Honours Program in Physics and Astronomy.
Note: Students whose programs require six credits of 4000-level experimental physics take both SC/PHYS 4210 3.0 and SC/PHYS 4211 3.0, including different experiments as determined by the course coordinator.

SC/PHYS 4211 3.0 Experimental Physics. Advanced experiments in physics related to topics in solid state physics, optical and microwave spectroscopy, and nuclear physics. Six open laboratory hours. One term.
Prerequisites: SC/PHYS 3210 6.0; registration in an Honours Program in Physics and Astronomy.
Note: Students whose programs require six credits of 4000-level experimental physics take both SC/PHYS 4210 3.0 and SC/PHYS 4211 3.0, including different experiments as determined by the course coordinator.

SC/PHYS 4250 3.0 Signal and Communications Theory. Signal representation using orthogonal functions; Fourier series and transforms as applied to signals; ideal and physically realizable filters; the sampling theorem; definitions and characterizations of energy, power and their spectral densities; the modulation theorem; various kinds of modulation and bandwidth requirements.
Prerequisites: SC/PHYS 3250 3.0; AS/SC/MATH 3271 3.0; AS/SC/MATH 4130B 3.0.
Degree credit exclusion: AS/SC/MATH 4130B 3.0.
SC/PHYS 4270 4.0 Astronomical Techniques. An introduction to modern astronomical instrumentation, observational methods, data analysis and numerical methods. In addition to weekly lectures, the course provides students with hands-on experience with both observational and theoretical techniques of modern astronomy. Normally offered in alternate years. One and one-half lecture hours per week, several laboratory exercises. Two terms.

Prerequisites: SC/PHYS 1070 3.0; AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0.

SC/PHYS 4310 3.0 Physics or Astronomy Project. A supervised research endeavour, either theoretical or experimental, in physics or astronomy. The project follows consultation with a faculty member who agrees to supervise.

Prerequisite: Open to students in the final year of the Physics, Applied Physics, or Astronomy Stream of an Honours Physics and Astronomy Program.

SC/PHYS 4410 3.0 Space Geodynamics. The dynamical behaviour of the Earth from space measurements. Included are the external gravity field of the Earth, orbital dynamics of artificial satellites, satellite geoid, internal figure of the Earth, rotation of the Earth and its measurement by space techniques. Normally offered in alternate years.

Cross-listed to: SC/EATS 4250 3.0.

Prerequisite(s) or corequisite(s): SC/EATS 3020 3.0; AS/SC/MATH 3241 3.0 or AK/AS/SC/COSC 3121 3.0; AS/SC/MATH 3271 3.0.

Degree credit exclusion: SC/EATS 4250 3.0.

SC/PHYS 4450 3.0 Spacecraft Systems. The course begins with a presentation of the basic principles underlying the design of spacecraft systems to meet the requirements of an orbital environment. It then develops the concepts and current approaches to spacecraft electrical, mechanical and thermal design.

Prerequisites: SC/PHYS 3050 3.0; SC/PHYS 3250 3.0; SC/PHYS 3280 3.0 or SC/EATS 3280 3.0.

SC/PHYS 4550 3.0 Introduction to Control Systems. An introduction to the analysis and design of automatic control systems for linear time-invariant systems.

Prerequisites: AS/SC/MATH 2015 3.0; AK/AS/SC/MATH 2270 3.0; AK/AS/SC/MATH 3410 3.0 strongly recommended.

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Political Science – Arts

Department Office:
6672 Rooms, 416-736-5266
Web Address:
www.yorku.ca/polisci/
Chair of Department:
I. Bakker
Distinguished Research Professor:
L.V. Panitch
Professors:

Professors Emeriti:
N. Black, R. Cornell, R. Cox, M.D. Goldrick, R.W. Grant, H. Kaplan, H. Simmons, G. Szablewski, D. Verney, R. Whitaker, N. Wood

Associate Professors:

Assistant Professors:
Dobrowsolsky, S. Henders, R. Saunders, G.W. Swanson

Contractually-Limited Appointments:
A. Porter

The political science curriculum offers students a program of study that highlights the department’s particular strengths. The program is designed to develop a student’s ability in three areas: 1) Political analysis: Students will learn to think critically about political life, especially in relation to the use and abuse of power, rights and responsibilities, different forms of diversity, and communities and nations in a global context. 2) Critical skills: The program emphasizes the development critical skills that will be an asset for future employment, including effective written and oral communication skills, analytical and numerical skills, and collaborative skills. 3) Democratic awareness: Students will learn how power and authority are exercised, and the possibilities of acting politically to bring about change.

The department offers a broad range of courses that focus on different themes. Students who major or minor in political science may choose to focus on one theme, or may take courses from several of the following themes:

- Canadian Democracy in the North American Context;
- Development, Inequality and the Global South;
- Gender, Diversity and Inclusion;
- Global Politics;
- Law, Social Justice, and Ethics;
- Political Economy and Political Power;
- Political Organizing and Communication;
- Political Thought;
- Public Policy and Administration;

In their final year of study, all political science majors and minors will take a capstone course that allows for reflection on their program of study and application of this knowledge to career and life goals. For further information regarding the capstone courses, please consult the departmental supplemental calendar or Web site.

A number of 1000- and 2000-level courses are also available to those students who wish to deepen their knowledge of political issues. As well, many of the upper level courses are also open to non-majors who wish to further explore various political issues. For more detailed information, please consult the departmental supplemental calendar or Web site.

The Political Science Program equips students with a broad set of analytical skills, critical skills and democratic awareness that gives our graduates the opportunity to pursue employment in a range of areas, including: the public service, international agencies, advocacy organizations, the media, and political organizations. Graduates of the program will be especially qualified to pursue graduate work in political science, or further studies in law, education or journalism.

For specific program requirements please consult the Faculty of Arts Programs of Study section of this Calendar.

The department also offers Specialized Honours BA degree programs in Public Policy and Administration and Global Political Studies. For details, please consult the Faculty of Arts Programs of Study section of this Calendar.

Courses in Political Science

Not all of the courses listed below will necessarily be offered in any given year. For details of courses to be offered, please consult the political science supplemental calendar.

1000-Level Courses

Note: Open to all students. Should be taken in their first or second year (i.e. before successfully completing 54 credits).

AS/POLS 1000 6.0 Introduction to Politics: Exploring the Democratic Experience. This course introduces students to the central concepts of political science. The emphasis is on how individuals participate in politics and on how politics may be changed. Among the topics to be considered are the following: nationalism and nation building, liberalism, communism, fascism, power, war, imperialism and dependency, international organization, interdependence and integration. Material from municipal, provincial, national and international levels of politics will be included as well as material on current policy issues, such as recent changes in the Ontario Human Rights Code.

Cross-listed to: AK/POLS 2410 6.0.

AS/POLS 1090 3.0 Introduction to Business, Government and Society. This course presents an overview of the Canadian and international business environment with particular emphasis on government regulation of business and the social pressures governments respond to when regulating business.

2000-Level Courses

Prerequisites: Open to all students. No prerequisites.

AS/POLS 2300 6.0 Introduction to Empirical Theory. Introduction to the issues, procedures and theories associated with the
empirical approach to the study of politics. The course includes an examination of the origins and critical debates of political science and a survey of the major empirical theories of politics.

**Note:** This course is a prerequisite for most 3000- and 4000-level courses in empirical theory and methodology.

**AS/POLS 2900 6.0 Perspectives on Politics: Classics of Western Political Thought.** This course examines different answers to critical questions concerning who rules, who ought to rule, and the conditions, institutions, and practices necessary to realize ideals of rule.

Cross-listed to: AK/PHIL 2900 6.0, AK/POLS 2900 6.0.

Degree credit exclusions: AS/POLS 2040 6.0, AK/POLS 2440 6.0, AK/PHIL 2440 6.0.

**AS/POLS 2910 6.0 Canadian Democracy in a North American Context.** This course introduces some of the political developments and nature of Canadian democracy in the context of the wider North American community. Topics include the constitution; the Charter of Rights; federalism; elections; social and economic development; migration; human rights; and, NAFTA.


**AS/POLS 2920 6.0 Global Politics.** This course explores the forces that structure power, conflict, compromise and cooperation both within states and among them, emphasizing the diversities and inequalities, the violence, and the on-going struggles to achieve political community that mark the present era of ‘globalization.’

Degree credit exclusion: GL/ILST 2300 3.0.

**3000-Level Courses**

**AS/POLS 3011 3.0 The Politics of Sexuality/ Sexual Politics.** Since the 1980s research has challenged popular conceptions of sex as a natural and biological force. This course explores the socio-political construction of sexualities through the fields of psychoanalysis, law, education, sexology, and popular culture.

Degree credit exclusion: AS/POLS 3000A 3.0.

**AS/POLS 3100 3.0 Media, Identity and Citizenship.** This course examines the principles and theories underlying communications and cultural practices, policy and regulation in Canada, with particular attention to the role of the state and the private sector in shaping the nature of political and cultural discourse in Canada.

**AS/POLS 3020 3.0 Utopia, Power and Sovereignty.** How did social change, wars and the confrontation between Protestantism and Catholicism shape political thought in the Renaissance and Reformation? Issues of power, liberty, faith, obedience, self-interest, and the common good are explored through More, Machiavelli, Luther, and others’ writings.

Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.

Degree credit exclusion: AS/POLS 3010 6.0.

**AS/POLS 3025 3.0 A Century of Revolution.** In the 1600’s, England was altered by sweeping transformations of social, economic, religious, and political institutions. Through James I, Hobbes, Locke, the Levellers and Diggers and others’ work, we explore how this ‘century of revolution’ shaped modern political thought.

Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.

Degree credit exclusion: AS/POLS 3020 6.0.

**AS/POLS 3040 6.0 Modern Political Thought from Kant to Foucault.** In this course we study those thinkers whose theories have had the greatest impact in shaping the modern world including Marx, Nietzsche, Freud, Marcuse and Foucault.

Degree credit exclusions: AS/POLS 3035 3.0, AS/POLS 3040 3.0, AS/POLS 3045 3.0.

**AS/POLS 3065 3.0: Political Culture of Race and Racism.** This course analyzes the political, economic and cultural development of “race” and “racism” in political discourse. Attention is given to categories such as “Eurocentric” and “the West”. We deal with the historical development of “identity politics” versus “political correctness” debates.

Degree credit exclusion: AS/POLS 3000B 3.0 (Fall/Winter 1997-1998).

**AS/POLS 3070 3.0 Psychology and Politics.** This course involves the use of personality concepts in contemporary political thought. After outlining some psychological theories, starting with Freud, the focus is on selected problems: ideology, freedom and the law, community and utopia, leadership and biography, democratic participation, totalitarianism and conservatism.

Prerequisite: AS/POLS 2040 6.0 or permission of the instructor.

Degree credit exclusion: AS/POLS 3070 6.0.

**AS/POLS 3075 3.0 Law, Justice and Jurisprudence.** This course deals with the theories and principles of law and justice which underlie legal systems, with an emphasis on how these theories and principles impact on the political process. Readings draw from a variety of classical and contemporary sources.

Prerequisite: Any second-year political science course or permission of the instructor.

Degree credit exclusion: AS/POLS 3120 6.0.

**AS/POLS 3110 3.0 The Politics of Communication and Culture in Canada.** This course is organized around the assumption that patterns of communication and culture are central elements in any political system. It examines the principles and theories underlying communications and cultural practices, policy and regulation in Canada, with particular attention to the role of the state and the private sector in shaping the nature of political and cultural discourse in Canada.

**AS/POLS 3110 3.0 The Process of Urban Politics I: Institutions and Power.** An examination of the political systems of major metropolitan areas in Canada, including the following topics: the structure and operation of municipal government; the role of cities in national and provincial governments; city elections and parties; and political aspects of urban planning.

Prerequisite: Any second-year political science course or permission of the instructor.

Degree credit exclusion: AS/POLS 3110 6.0.

**AS/POLS 3115 3.0 The Process of Urban Politics II: Social Justice and Urban Ecology.** An examination of the important issues confronting urban governments in Canada and the forces impacting responses to these issues. Issues include redevelopment, social housing and the environment; forces impacting responses include the economy, social culture, ideology and social movements.

Prerequisite: Any second-year political science course or permission of the instructor.

Recommended: AS/POLS 3110 3.0.

Degree credit exclusion: AS/POLS 3110 6.0.

**AS/POLS 3120 3.0 The Politics of French Canada.** The purpose of this course is to provide a systematic introduction to the political life of Quebec, as well as relations between Quebec and the rest of Canada. It seeks to apply and evaluate major theoretical propositions about nationalism and independence movements, ethnic and class relations, intergovernmental conflict, economic and social change, and social movements and political parties.

Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.

Degree credit exclusion: AS/POLS 3120 6.0.

**AS/POLS 3125 3.0 Canadian Political Economy.** An exploration of the rich tradition of Canadian political economy through a survey of the traditional as well as emerging approaches and issues. The classical political economy writers, including the pioneering staples school, are examined, as well as more recent writers. Critiques and explanations of political economists — old and new — highlight the elements of past and current Canadian political and economic development.

Prerequisite: AS/POLS 2100 6.0 or AS/POLS 2610 6.0 or permission of the instructor.