The following proposals, received on DAP between June 16-30, 2015, have been approved. For more information on the DAP process, see the Academic Handbook here.

---

**FACULTY OF EDUCATION**

*Effective September 1, 2015, the following courses be withdrawn.*

- EDUC 5176 – Curriculum and Pedagogy in Elementary Science & Technology
- EDUC 5218 – Curriculum and Pedagogy in Intermediate/Senior Music (Instrumental)

*Effective September 1, 2015, the following courses be revised.*

- EDUC 5136 – **Teaching and Learning Mathematics Today** Curriculum & Pedagogy in Mathematics for the Intermediate Grades
  The professional and theoretical perspectives associated with learning and pedagogy in mathematics. Participants will be expected to reflect critically on both theory and practice, based upon psychological epistemological, mathematical, and current pedagogical and curricular approaches, in light of how mathematics is taught in schools. An introduction to exemplary practices in the teaching of mathematics in the intermediate grades. Participants engage in collaborative activities designed to develop deeper understandings of the doing, teaching, and learning of mathematics. Special emphasis on non-routine activities, accessible and pleasurable mathematics, learning tools, critical appraisal and reflective practice. 0.5 credit (cross-listed ED 9411)

- EDUC 5137 - Curriculum and Pedagogy in **Vocal and Instrumental Music (Vocal)** for the Intermediate Grades
  ...

- EDUC 5236 – **Mathematics for Teachers** Curriculum and Pedagogy in Mathematics for the Senior Grades
  A focus on making mathematics engaging and meaningful for learners. Participants explore ways to develop connected knowledge, consistent beliefs, and positive attitudes towards mathematics, and are introduced to research on the nature, role, and development of teachers’ knowledge of mathematics. An introduction to the theory and practice of the teaching of mathematics in the senior secondary grades, including a focus on instructional strategies, educational resources, critical appraisal of curriculum documents, and issues in mathematics education reform. Integration of relevant ideas and content from psychology, sociology, and research in mathematics education. 0.5 credit (cross-listed ED 9412)

- EDUC 5237 - Curriculum and Pedagogy in **Vocal Music (Vocal)** for the Senior Grades
  ...

- EDUC 5460 – Curriculum, Pedagogy, and Learning in Early Childhood **Part 1**
  ...

- EDUC 5461 – **Multiliteracies in the Early Years** Curriculum, Pedagogy, And Learning in Early Childhood **Part 2**
  ...
Effective September 1, 2015, the following courses be introduced.

**EDUC 5006Q - Transition to Professional Practice**
Presentations, workshops, seminars, symposia, and other events to support field experiences, practica, and specialty areas of study. These include Ministry, College, and Federation presentations, career and job preparation activities, and research, leadership, and other projects. Half days weekly, years one and two of the B.Ed. program, 0.25 credit.

**EDUC 5021Q - Practicum 1**
Active observation within local schools. Teacher Candidates acquire a “big picture” understanding of schools, communities, students, and teachers as they observe in classrooms, participate in school life, and plan and teach their first lessons. Four weeks, 0.25 credit. Year one, term 1.

**EDUC 5022S - Practicum 2**
An introduction to the duties and responsibilities of classroom teachers, in particular to the professional expectations of teachers and to the planning and teaching of lessons. Teacher Candidates develop instructional strategies and other skills, and demonstrate their potential for success as a teacher. Four weeks, 0.25 credit. Year one, term 2.

**EDUC 5023 - Practicum 3**
Active observation and assistance in schools and classrooms during the first two weeks of September. Continued development of teaching skills and growth in independence with respect to lesson planning and teaching the curriculum. Six weeks, 0.5 credit. Year two, term 1.

**EDUC 5024 - Practicum 4**
Consolidate teaching skills, develop independence, plan and teach a unit, evaluate students, teach some full days during weeks 5 and 6, or demonstrate potential to do so. Five weeks, 0.5 credit. Year two, term 2.

**EDUC 5025Q - Alternative Field Experience A**
A field placement or research or leadership project, in support of specialty courses. Three weeks, 0.25 credit. Year two, term 1.

**EDUC 5026S - Alternative Field Experience B**
A second field placement or research or leadership project, in support of specialty courses, or, with approval, another aspect of teacher development. Four weeks, 0.25 credit. Year two, term 2.

**EDUC 5178 - Curriculum & Pedagogy in Elementary Science & Technology**
Approaches to and strategies for the teaching of science in the elementary school grades. Course content focuses on curricula and pedagogies that are true to the nature of science, consistent with desired educational aims, and appropriate for young learners. 0.5 credit

**EDUC 5239 - Curriculum and Pedagogy in Instrumental Music for the Senior Grades**
The development of teaching strategies for contemporary instrumental techniques and curriculum,
with appropriate resources. An emphasis on competent, reflective practice. Theories of learning, teaching, and integration are linked with music-making in classroom settings. 0.5 credit

EDUC 5465 – Introduction to STEM Education
An introduction to the nature and value of integrated and multi-disciplinary collaborations in Science, Technology, Engineering, and Mathematics education. Teacher Candidates develop critical perspectives and explore issues in STEM education in terms of policy and practice. 2 hours per week, 0.5 credit.

EDUC 5466 – Curriculum and Pedagogy in STEM Education
A focus on STEM education within the broader curricular spectrum. Teacher candidates develop pedagogical content knowledge, and skills, technologies, instructional strategies, and assessments to support the design and development of STEM projects. 2 hours per week, 0.5 credit.

EDUC 5480 - Introduction to Teaching Student with Exceptionalities
Students will critically understand various conceptions of education for students with exceptionalities and apply these to problems of practice. Common exceptionalities will be examined with respect to psychological characteristics, assessment, interventions, and program accommodations and modifications. Models of delivering services and the individual educational plan will be examined. (Cross-listed EDUC 9480) 2 hours per week, 0.5 credit.

EDUC 5481 - Social and Emotional Learning
This course focuses on the social and emotional learning of all students, including those with social, emotional, and behavioral exceptionalities. Topics include mental health, safe schools, and societal acceptance of people with exceptionalities. Students will learn to apply Individual Educational Plans, positive behavioral supports, program accommodations, modifications, and interventions. (Cross-listed EDUC 9481) 2 hours per week, 0.5 credit.

EDUC 5482 - Academic Learning for Students with Exceptionalities
Students will learn to analyze and address problems of practice concerning the academic learning of students with exceptionalities. Topics include general practices such as strategy instruction, universal design, and differentiated instruction; and subject-specific practices in decoding, reading comprehension, written composition, mathematics, and content area subjects. (Cross-listed EDUC 9482) 2 hours per week, 0.5 credit.

FACULTY OF ENGINEERING

ELECTRICAL AND COMPUTER

Effective September 1, 2015, the following modules be revised.

D. SOFTWARE ENGINEERING - EMBEDDED SYSTEMS OPTION

Fourth-Year Program
ECE 4460A/B, ECE 4470A/B, ECE 4489A/B, ES 4498F/G, SE 4450, SE 4452A/B, SE 4453A/B, SE 4472A/B, Business Administration 2299E, One 0.5 technical elective 0.5 non-technical elective from the approved list.*
*Selection of the non-technical elective must be approved by the Department Counsellor to satisfy the CEAB requirements of subject matter that deals with central issues, methodologies, and thought processes of the humanities and social sciences. An approved list can be found on the Engineering Web site.

E. SOFTWARE ENGINEERING - HEALTH INFORMATICS OPTION

Fourth-Year Program
MHI 4100F/G, MHI 4110F/G, Physics 2600A/B, SE 4450, SE 4452A/B, SE 4453A/B, SE 4472A/B, ES 4498F/G, Business Administration 2299E, One 0.5 technical elective 0.5 non-technical elective* from the approved list.
*Selection of the non-technical elective must be approved by the Department Counsellor to satisfy the CEAB requirements of subject matter that deals with central issues, methodologies, and thought processes of the humanities and social sciences. An approved list can be found on the Engineering website. The Topic of the SE4450 capstone project must be in the Health Informatics field.

FACULTY OF SCIENCE

EARTH SCIENCES

Effective September 1, 2015, Earth Sciences 2001F/G - Exploring the Planets be withdrawn.

Effective September 1, 2015, the following course be introduced.

Earth Sciences 2232F/G - Exploring the Planets
An introduction to planetary science and the exciting frontier of space exploration; emphasis is placed on the processes shaping the planets and moons of the Solar System and how this relates to the evolution of Earth, the Solar System, and life; attention paid to current results from planetary exploration missions.
Antirequisite(s): Astronomy 2201A/B, 2232F/G, the former Planetary Science 3380A/B, and the former Earth Sciences 2001F/G.
2 lecture hours, 2 laboratory hours, 0.5 course.

Effective September 1, 2015, the following courses be revised.

Earth Sciences 1083F/G - Life on Planet Earth
Course description: No change.
Antirequisite(s): Earth Sciences 2265A/B, 2266F/G.
3 lecture hours, 1 tutorial hour, 0.5 course.

Earth Sciences 1086F/G - Origin and Geology of the Solar System
Course description: No change.
Antirequisite(s): Earth Sciences 2232F/G, Astronomy 2201A/B, 2232F/G, or the former Earth Sciences 2001F/G
The equivalent of 3 lecture hours per week. Offered only online (see Western Distance Studies); 0.5 course

**Earth Sciences 3001A/B – Astrobiology**

Course description: No change.
Prerequisite(s): Chemistry 1301A/B or 1302A/B; 0.5 credit in any 1000-level Biology course; **Earth Sciences 2232F/G or Astronomy 2201A/B, 2232F/G or the former Earth Sciences 2001F/G.**
2 lecture hours, 2 laboratory hours, 0.5 course.

**Earth Sciences 4002A/B - Planetary Image Interpretation**

Course description: No change.
Antirequisite(s): The former Planetary Science 4830A/B.
Prerequisite(s): **Earth Sciences 2232F/G or Astronomy 2201A/B, 2232F/G or the former Earth Sciences 2001F/G.**
2 lecture hours, 2 laboratory hours, 0.5 course.

*Effective September 1, 2015, the following modules be revised.*

**MINOR IN PLANETARY SCIENCE & SPACE EXPLORATION**

*...
Module
4.0 courses:
0.5 course from: **Earth Sciences 2232F/G, Astronomy 2201A/B, 2232F/G or the former Earth Sciences 2001F/G**
...

**MINOR IN GEOLOGY**

*...
Module
4.0 courses:
0.5 **1.0 course:** Earth Sciences 2200A/B, **2206A/B.**
...

**FACULTY OF SCIENCE and SCHULICH SCHOOL OF MEDICINE & DENTISTRY**

**PHYSIOLOGY AND PHARMACOLOGY**

*Effective September 1, 2015, the following courses be withdrawn.*

- Physiology 3420A - Introduction to the Physiology of Exercise
- Physiology 3430A/B - Neurophysiology

*Effective September 1, 2015, the following course be introduced.*

- Pharmacology 4100A/B – Digestion and Related Metabolism
This course will cover gastrointestinal secretion, motility, digestion, absorption, hepatic and pancreatic physiology. Specific areas will include: gut-brain-liver axis and nutrient metabolism, exocrine and endocrine pancreas, liver and lipid metabolism. Relevant pathologies and disease
states, including obesity, diabetes, and metabolic syndrome along with current therapeutic strategies will be covered.

Antirequisite(s): Physiology 4100A/B
Prerequisite(s): Physiology 3120
2 lecture hours, 0.5 course.
Cross-listed with Physiology 4100A/B

Effective September 1, 2015, the following courses be revised.

Physiology 4100A/B – Digestion and Related Metabolism
Course description: No change.
Antirequisite(s): Pharmacology 4100A/B
Prerequisite(s): Physiology 3120
2 lecture hours, 0.5 course.
Cross-listed with Pharmacology 4100A/B

Physiology 4420A/B – Physiology of Exercise
A study of the integration of neural, metabolic and vascular factors that compete to simultaneously regulate blood pressure and blood flow during physical exercise in health and disease.
A study of the response and regulation of the human cardiovascular, respiratory and acid base systems to acute and chronic exercise.
Antirequisite(s): Kinesiology 4432A/B, the former Physiology 3420A.
Prerequisite(s): Physiology 3120, 3130Z and Physiology 3140A.
2 lecture hours, 1 tutorial hour, 0.5 course.
Priority to students in Honors Specialization modules in Physiology, and Physiology and Pharmacology.

Physiology 4520A/B – Fundamental Concepts in Stem Cell Biology and Regenerative Medicine
Current concepts in regenerative medicine are explored, focusing on the pre-clinical development and clinical application of stem cell transplantation therapies. This course emphasizes the fundamentals of tissue-specific stem cell isolation, expansion and functional characterization using immunodeficient xenotransplantation models for the treatment of hematopoietic disorders, ischemic diseases, diabetes and cancer.
This course explores fundamental concepts in regenerative medicine, including stem cell biology, and focuses on the physiology and pathophysiology of hematopoiesis and cancer development, blood vessel formation for tissue repair, and cellular transplantation for regenerative therapies.
Prerequisite(s): Physiology 3120, 3130Z and Physiology 3140A; or Physiology 3120 (with a mark of at least 75%) and Physiology 3140A.
2 lecture hours, 0.5 course.

Physiology 4680A/B – Cellular/Molecular Neurobiology
This is an advanced course in regulation of cellular communication. Topics will cover physiological mechanisms involved in intrinsic neuronal activity, activation and regulation of glutamatergic and GABAergic synapses, synaptic plasticity, and signal transduction pathways of G-protein coupled receptors. Specific examples relevant to neuronal functions will be used.
Mechanisms at the cellular and molecular level by which function of neurons and their communication to target cells is regulated. Topics may include mechanisms involved in cell fate determination in the nervous system, specification of neuronal phenotype, neurochemical
transmission, receptor signal transduction mechanisms, and receptor-ligand biology. 
Prerequisite(s): Physiology 3120 and 3140A; or Neuroscience 2000, Physiology 3140A and 
registration in Year 4 of an Honors Specialization in Neuroscience. 
2 lecture hours, 0.5 course.

**Physiology 4700A/B – Fetal Physiology**  
This course covers placental function (endocrine, nutrient transport and parturition), fetal growth 
and development (heart, brain, kidneys, vessels, adipose, liver, lung, muscle and pancreas) and 
deals with the concept of the fetus as a patient to be followed during poor in utero conditions, 
such as hypoxia or poor diet. 
Blastocyst implantation, establishment of the placenta and the development and regulation of fetal 
cardiovascular, respiratory, CNS and endocrine functions. The control of fetal growth, 
metabolism, water balance and the role of the fetus in parturition are described. The interaction 
between basic and applied physiology is stressed. 
Prerequisite(s): Physiology 3120. 
2 lecture hours, 0.5 course.

---

**FACULTY OF SOCIAL SCIENCE and BRESCIA UNIVERSITY COLLEGE**

**MANAGEMENT AND ORGANIZATIONAL STUDIES**

*Effective September 1, 2015, the following courses be revised at Main Campus and Brescia.*

- **MOS 1021A/B – Introduction to Consumer Behaviour and Human Resources Management and Organizational Studies I**
  
- **MOS 1023A/B – Introduction to Accounting and Finance Management and Organizational Studies II**
  
---

**BRESCIA UNIVERSITY COLLEGE**

**MANAGEMENT AND ORGANIZATIONAL STUDIES**

*Effective September 1, 2015, the following course be introduced at Brescia.*

- **MOS 3385A/B: Essentials of Human Resources for Non HR Students**
  An introduction to human resources management (HRM) processes in organizations. Topics 
  include: history of HRM, role of HRM departments in organizations, basics in job design, staffing 
  analysis, recruitment and selection. 
  Antirequisite(s): MOS 4485F/G, the former MOS 382E. 
  Prerequisite(s): Enrolment in 3\textsuperscript{rd} or 4\textsuperscript{th} year of the BMOS program. 
  3 lecture hours, 0.5 course. 
  *(Brescia, Huron)*

*Effective September 1, 2015, the following course be introduced.*
MOS 3470F/G: Applied Marketing Research
This course is a practical, hands-on exploration of the tools of marketing research to help students make better management decisions. It will help students be better buyers, designers, evaluators and users of market research. Through applied research, students gain an understanding of the required steps in designing a research study to yield relevant, timely and accurate information.
Antirequisite(s): MOS 3420F/G and Business Administration 4481Q/R/S/T.
Prerequisite(s): MOS 2320A/B or MOS 3320A/B and enrolment in 3rd or 4th year of BMOS.
Pre-or Corequisite(s): One of: MOS 2242F/G; Psychology 2820E; Sociology 2205A/B; Statistical Sciences 2035.
3 lecture hours, 0.5 course.
(Brescia)

Effective September 1, 2015, the following modules be revised.

HONORS SPECIALIZATION IN FOOD MANAGEMENT

Module
10.5 10.0 senior courses:
1.0 course: Business Administration 2257.
0.5 course from: MOS 2242A/B; Psychology 2850F/G or Sociology 2205A/B.
2.0 3.0 courses: MOS 2181A/B, 3320A/B, 3370A/B, 3371A/B; MOS 2242A/B or Sociology 2205A/B; Foods and Nutrition 2132A/B.
1.0 course from: MOS 2205F/G or Human Ecology 2266F/G; MOS 2275A/B, 3350A/B.
2.0 1.0 course from: MOS 2205F/G or Human Ecology 2266F/G; MOS 3310A/B, 3330A/B, 3360A/B, 3361A/B, 3370A/B, 3470F/G, 4411A/B, 4415A/B.

MAJOR IN ACCOUNTING

Module
7.0 senior courses:
1.0 course: Business Administration 2257.
0.5 course: MOS 2242A/B or Sociology 2205A/B.
2.5 2.0 courses: MOS 2275A/B, 3310A/B, MOS 3320A/B, MOS 3330A/B, MOS 3370A/B, MOS 3371A/B, 4410A/B.
0.5 course from: MOS 2181A/B, 2205F/G, 2275A/B, 3350A/B.

MAJOR IN CONSUMER BEHAVIOR

Module
7.0 senior courses:
1.0 course: Business Administration 2257.
0.5 course: MOS 2242A/B; Psychology 2850A/B; or Sociology 2205A/B.
2.5 courses: MOS 2181A/B, 3310A/B, MOS 3320A/B, MOS 3330A/B, MOS 3370A/B, 4410A/B.
1.5 courses from: MOS 3321F/G, 3322F/G, 3420F/G, 3470F/G, 4411A/B, 4415A/B.
MAJOR IN FOOD MANAGEMENT

Module
7.0 senior courses:
1.0 course: Business Administration 2257.
0.5 course from: MOS 2242A/B; Psychology 2850A/B or Sociology 2205A/B.
1.5 2.0 courses: Foods and Nutrition 2132A/B, MOS 3320A/B, 3370A/B, 3371A/B.
2.0 1.5 courses from: MOS 2205F/G or Human Ecology 2266F/G; MOS 3321F/G, 3322F/G, 3420F/G, 3470F/G, 4411A/B, 4415A/B.

SPECIALIZATION IN FOOD MANAGEMENT

Module
10.0 senior courses:
1.0 course: Business Administration 2257.
0.5 course from: MOS 2242A/B; Psychology 2850F/G or Sociology 2205A/B.
2.0 3.0 courses: MOS 2181A/B, MOS 3320A/B, 3370A/B; 3371A/B; MOS 2242A/B or Sociology 2205A/B; Foods and Nutrition 2132A/B.
1.0 course from: MOS 2205F/G or Human Ecology 2266F/G; MOS 2275A/B, 3250A/B, 3330A/B, 3350A/B.
2.0 1.5 courses from: MOS 2205F/G or Human Ecology 2266F/G; MOS 3321F/G, 3322F/G, 3420F/G, 3470F/G, 4400A/B, 4411A/B, 4415A/B.

HURON UNIVERSITY COLLEGE

BACHELOR OF THEOLOGY

Effective September 1, the Bachelor of Theology module be revised to remove superfluous information.

BACHELOR OF THEOLOGY (BTh)
The Bachelor of Theology (BTh) is a four-year degree. The Three-Year Bachelor of Theology may also be awarded. Huron University College offers one or more Major modules leading to the BTh. Admission Requirements
Admission to the Faculty of Theology for this degree will have requirements identical to those for admission to the Faculty of Arts and Social Science at Huron University College. Admission to the Major Module
Completion of first year requirements with an average of 60% in 3.0 principal courses including Theological Studies 1020E, and no grade less than 60% in any principal course.
A Major module will consist of 7.0 courses:
1.0 course: Religious Studies 2131E
4.0 courses in Theological Studies at the 2200 level or above, Languages within the module below the 2200 level may be counted.
2.0 courses in Theological Studies at the 2200 level or above of which 0.5 courses must be at the 4000 level*
*Students in the Major module may complete 1.0 thesis course (offered at the 4000 level) with the permission of the Faculty of Theology. Student with an interest in graduate work in Theology are
encouraged to develop competency in a language (those usually associated with theological study are modern German, French, Classical Hebrew, new Testament Greek) or to develop basic reading competence in two languages.

Graduation Requirements - Bachelor of Theology
Students earning the BTh must complete one Major module in theological studies offered by the Faculty of Theology. Students may pursue another module offered by the Faculty of Arts and Social Science at Huron University College. Students must meet all graduation requirements for the Bachelor Degree (Four-Year).

Graduation Requirements - Bachelor of Theology (Three-Year)
Students earning this degree must complete one Major module in theological studies offered by the Faculty of Theology. Students must meet all graduation requirements for the Bachelor Degree (Three-Year).

Students completing one Minor module in the Faculty of Arts and Social Science may also complete the Major in theological studies for their BA.

Effective September 1, 2015, the following courses be withdrawn.

Religious Studies 2400F/G - Hebrew Bible 1: Pentateuch and Deuteronomistic History
Religious Studies 2410F/G - Hebrew Bible 2: Prophets and Writings
Theological Studies 1020E - Introduction to Theology
Theological Studies 2201F/G - Historical Theology - The Patristic Period
Theological Studies 2202F/G - Historical Theology - The Middle Ages and Reformation
Theological Studies 2203F/G - Biblical Studies - Old Testament Exegesis
Theological Studies 2205F/G - Historical Theology - The Modern Period

Effective September 1, 2015, the following modules be revised.

MAJOR IN BIBLICAL STUDIES
...
Module
...
...

MAJOR IN THEOLOGY & RELIGIOUS ETHICS
...
Module
...
1.0 course from Religious Studies 3500F/G and any other Religious Studies or Theological Studies courses at the 2000 level or higher.

MINOR IN THEOLOGY & RELIGIOUS ETHICS
...
Module
...
1.0 course from: Theological Studies 3312F/G, Religious Studies 1015F/G, 3030F/G, 3100F/G,

MINOR IN BIBLICAL STUDIES

Module


DAP UPDATE: MINOR CHANGES

DON WRIGHT FACULTY OF MUSIC

Effective September 1, 2015, the following courses be revised.

**Music 3925 – Elective Applied Study III**
Individual lessons and participation in performance class. For students registered in a Faculty other than Music, and for Music students registered in a year in which Applied Music study is not required, or who are eligible for the study of more than one principal instrument.
Prerequisite(s): Music 1920 or Music 2925. Students will be billed a fee upon registration. (See Fees section of the Calendar).
1.0 course.

**Music 4925 – Elective Applied Study IV**
Individual lessons and participation in performance class. For students registered in a Faculty other than Music, and for Music students registered in a year in which Applied Music study is not required, or who are eligible for the study of more than one principal instrument.
Prerequisite(s): Music 2920, Music 2921 or Music 3925. Students will be billed a fee upon registration. (See Fees section of the Calendar).
1.0 course.

FACULTY OF SCIENCE

Effective September 1, 2015, the following courses be revised.

**Statistical Sciences 3657A/B – Intermediate Probability**
Course description: No change.
Prerequisite(s): A minimum mark of 60% in Statistical Sciences 2858A/B and in Statistical Sciences 2503A/B (or the former Applied Mathematics 2503A/B) or Calculus 2503A/B.
3 lecture hours, 1 tutorial hour, 0.5 course.

FACULTY OF SOCIAL SCIENCE

Effective September 1, 2015, the following module be revised.

**MAJOR IN CRIMINOLOGY**
Note: Students enrolled in a Major Module in Sociology and Criminology as part of an Honors Double Major will be required to complete 1.0 courses in Sociology numbered 3000-3999 in place of 1.0 courses from the following list: Sociology 2140, 2259, Law 2101, Philosophy 2080, 2821F/G, 2822F/G, Political Science 3332F/G, Psychology 2031A/B.

…