

Date Submitted: 09/15/22 3:25 pm

## Viewing: **Glossary : Glossary**

Last approved: 09/15/22 3:03 pm

Last edit: 09/20/22 2:45 pm

Last modified by: nataliephelan

Changes proposed by: nataliephelan

### In Workflow

1. REGS RO UG Review
2. PRE SCCASP
3. SCCASP
4. Senate
5. PRE CalEditor
6. CalEditor

### Approval Path

1. 09/26/22 9:37 am  
Erika Strathearn  
(erikastrathearn):  
Approved for REGS RO  
UG Review
2. 09/28/22 10:02 am  
Natalie Phelan  
(nataliephelan):  
Approved for PRE  
SCCAS
3. 10/04/22 12:13 pm  
Erika Strathearn  
(erikastrathearn):  
Approved for SCCASP

### History

1. Nov 24, 2017 by Sandra Bauer (sandrabauer)
2. Nov 24, 2017 by Sandra Bauer (sandrabauer)
3. Feb 7, 2018 by Mike Labreque (mikelabreque)
4. Feb 7, 2018 by Mike Labreque (mikelabreque)
5. Feb 7, 2018 by Mike Labreque (mikelabreque)
6. Feb 7, 2018 by Mike Labreque (mikelabreque)
7. Feb 7, 2018 by Mike Labreque (mikelabreque)
8. Apr 30, 2018 by Mike Labreque (mikelabreque)
9. Apr 30, 2018 by Mike Labreque (mikelabreque)
10. Nov 6, 2018 by Mike Labreque (mikelabreque)

11. Feb 19, 2019 by Mike Labreque (mikelabreque)
12. Mar 19, 2019 by Mike Labreque (mikelabreque)
13. Feb 10, 2020 by Sarah Cleary (sarahcleary)
14. Jun 8, 2020 by Sarah Cleary (sarahcleary)
15. Dec 17, 2020 by Sarah Cleary (sarahcleary)
16. Feb 5, 2021 by Sarah Cleary (sarahcleary)
17. May 3, 2021 by Sarah Cleary (sarahcleary)
18. May 20, 2021 by Natalie Phelan (nataliephelan)
19. Aug 12, 2021 by Natalie Phelan (nataliephelan)
20. Nov 16, 2021 by Natalie Phelan (nataliephelan)
21. Apr 12, 2022 by Natalie Phelan (nataliephelan)
22. Apr 12, 2022 by Natalie Phelan (nataliephelan)
23. Apr 12, 2022 by Natalie Phelan (nataliephelan)
24. Sep 15, 2022 by Natalie Phelan (nataliephelan)

Calendar Pages Using this Program

[Glossary](#)

---

Effective Date	2023-24
Workflow	majormod
Program Code	Glossary
Level	Undergraduate
Faculty	Not Applicable
Academic Unit	Regulations: RO
Degree	
Title	<a href="#"><u>Glossary</u></a>

---

## Program Requirements

---

## Glossary

The following glossary of definitions is intended to provide explanations of how certain important terms are used throughout the Calendar. In rare cases where a discrepancy may occur between the definition provided in this Glossary and the use of the term in the remainder of the Calendar, the term as used in the remainder of the Calendar takes precedence.

The Glossary is not intended to be exhaustive; students should refer to Carleton's web site for other important information (e.g., [carleton.ca/registrar](http://carleton.ca/registrar); [gradstudents.carleton.ca](http://gradstudents.carleton.ca)).

Except where noted, all definitions apply to undergraduate and graduate students.

| [A](#) | [B](#) | [C](#) | [D](#) | [E](#) | [F](#) | [G](#) | [H](#) | [I](#) | J | K | [L](#) | [M](#) |

| N | [O](#) | [P](#) | Q | [R](#) | [S](#) | [T](#) | [U](#) | V | [W](#) | X | Y | Z |

## A

Academic Continuation Evaluation (ACE)	The ACE is the end-of-term assessment of student academic standing in undergraduate degree programs and special studies. The possible outcomes of an ACE are <i>Eligible to Continue</i> , <i>Academic Warning</i> , <i>Required to Withdraw for Two Terms</i> , <i>Continue in Non-Honours</i> , <i>Continue in Alternate</i> , <i>Dismissed from Program</i> , or <i>Required to Withdraw for Two Years</i> .
Auditing Student	A student who attends a course for interest and not for credit. Formal registration is required.

## B

Bachelor's Program	An undergraduate, non-honours academic program of study requiring a minimum of 15.0 credits.
--------------------	--

## C

Calendar	The official publication of academic regulations, academic programs and course descriptions as approved by the Senate.
Certificate	An undergraduate certificate is a stand-alone Credential that may be taken concurrently with a bachelor's program or independently. It is normally constituted by a structured set of at least four credits of sequential courses of different levels in a particular discipline or area of study that introduces students to, or extends their knowledge of, that discipline or area of study.
Challenge for Credit	Undergraduate academic course credit gained through examination based on a student's prior learning experience gained through professional or work experience. A successful challenge for credit is noted in the student's record as CH. (An unsuccessful challenge for credit is noted as UCH). A CH is neither included in the CGPA calculation nor used to satisfy the degree program residency requirement. Challenge for Credit is not available in all courses.
Collaborative Specialization	At the graduate level the term "collaborative specialization" refers to an Option added to a degree program that provides an experience in a discipline or intellectual area in addition to that provided in the student's home program and meets the requirements identified by the Quality Council's corresponding definition.
Concentration	A program Element recorded on the transcript and diploma constituted by at least 3.5 credits of required courses at the undergraduate level and 1.5 credits of required courses at the Master's level that concentrates on a particular area of study within the program and provides the student with specific expertise, knowledge and/or practice. At the Doctoral level, a concentration is constituted by at least three curricular academic requirements, excluding the dissertation, residency and language requirements, that form a distinctive area of study related to the concentration.
Co-operative Education	An undergraduate or graduate Option comprising work periods combined with academic study to acquire work-related experience; the co-op option is intended to complement the student's academic study.

Core	A course or group of courses that are a subset of the courses that constitute a major in an undergraduate program. These are courses of special importance to undergraduate programs and are subject to specific CGPA requirements.
Cotutelle	An Option in any Ph.D. program. Doctoral students undertake to complete the requirements of a Ph.D. program in both their home university and a partner university in another country.
Course	A course is a unit of teaching that may count as credit towards a Credential. Courses typically last one academic term and focus on one subject area with a prescribed sequence of units of study (lectures, seminars, tutorials, workshops, laboratories, assignments, essays, tests, examinations and so on). Courses are delivered by one or more instructors and have a fixed roster of students.
Course Numbering	<p>Courses have unique eight-character alphanumeric course codes, titles and descriptions. The credit value is indicated in square brackets following the course number.</p> <p>The first number in a course designation (e.g. 0000, 1000, 2000, 3000, 4000) indicates the knowledge level of a course and not the year of registration or year standing one requires to enroll in it. One can enroll in any course provided one meets the prerequisites. Prerequisites come in many forms and combinations such as but not limited to year standing, completion of other courses, registration in a specific program, permission of the Department, and specific CGPA requirements. 0000-level courses are those that may be required to satisfy prerequisites. 1000-level courses are typically introductory or foundation level courses. 2000-level and 3000-level courses are typically intermediate to upper-intermediate level courses. 4000-level courses are typically advanced level courses. 5000 and 6000-level are graduate level courses.</p>
Course Outline	<p>Instructors are required to provide students in each course a written Course Outline (distributed in class or electronically), on or before the first teaching day for undergraduate courses, and before the last date for late registration for graduate courses. The course outline must specify all the elements that will contribute to the final grade, as well as the overall grade breakdown for the course.</p> <p>Courses that do not contribute to the fulfilment of graduation requirements within the student's program:</p> <ol style="list-style-type: none"> <li>1. Extra to the Degree (ETD): Passed credits that are in excess of the required credits;</li> </ol>
Courses Set Aside	<ol style="list-style-type: none"> <li>2. No Credit for Degree (NCD): Passed credits that are ineligible for credit in the student's program;</li> </ol> <ol style="list-style-type: none"> <li>3. Forfeit: Repeated courses, course equivalencies, preclusions, and courses placed in this category by an academic standing committee or an appeal committee.</li> </ol>
Credential	An academic qualification awarded by the University Senate upon successful completion of an academic program. All credentials are either degrees (bachelors, masters, or doctoral), diplomas, or certificates.
Credit	The academic value of a course (for example, 0.0, 0.5, 1.0, et cetera).
Credits Not in the Major	Credits Not in the Major are credits that must be taken in programs that require Credits Not in the Major from disciplines and intellectual areas other than those which constitute the discipline, disciplines or intellectual area of the major in such programs. Credits Not in the Major constitute one form of restricted electives.
Cumulative Grade Point Average (CGPA)	The key assessment tool for undergraduate Academic Continuation Evaluation, and graduate and undergraduate graduation requirements and distinctions. The CGPA may be used in assessments for scholarships, medals, and other milestones. The CGPA is the average of grade points earned on all courses required for and counting towards graduation from the student's current program (overall CGPA), or the average of grade points earned on a subset of such courses (for example, those constituting the Major or a Minor) at the time the CGPA is calculated.
Degree	<p><b>D</b></p> <p>A Credential at the Bachelor, Master or Doctoral level awarded by the University Senate upon the successful completion of a prescribed set and sequence of program requirements at a specified standard of performance.</p>

**Post-baccalaureate Diploma:** a stand-alone undergraduate credential for candidates already possessing a bachelor's degree intended to: (a) qualify candidates for consideration for entry into a Master's program; (b) bring a candidate who already possesses a bachelor's degree up to a level of a bachelor's degree of 20.0 credits or more in another discipline; (c) provide a candidate who already possesses a twenty-credit bachelor's degree in the same discipline the opportunity to bring their previous studies to current equivalents and/or to examine alternative areas; or, (d) provide a candidate with a professional undergraduate credential for which the prior completion of an undergraduate degree program is appropriate.

Post-baccalaureate diplomas are normally constituted by at least three and a maximum of five credits of advanced undergraduate courses.

## Diploma

### **Graduate Diploma:**

Type 1: Awarded when a candidate admitted to a master's program leaves the program after completing a certain proportion of the requirements. Students are not admitted directly to a Type 1 Diploma.

Type 2: Offered concurrently with a master's or doctoral degree, the admission to which requires that the candidate be already admitted to the master's or doctoral degree program. A Type 2 Diploma represents an additional, usually interdisciplinary, qualification of 2 to 3 credits.

Type 3: A stand-alone, direct-entry program of 2 to 3 credits, generally developed by a unit already offering a related master's (and sometimes doctoral) degree, and designed to meet the needs of a particular clientele or market.

## Dual Degree

A Dual Degree program is a joint partnership at the undergraduate or Master's level where a co-enrolment agreement exists between Carleton and another post-secondary institution. Students simultaneously complete a program at both institutions, receiving two diplomas. Students must meet the admission criteria and must fulfill all the program requirements of both institutions within the normal time to completion.

## E

## Element

Elements are: (i) Undergraduate: majors, minors, concentrations, and specializations; there are a maximum number of elements that may be taken in conjunction with a program at the undergraduate level; (ii) Graduate: concentrations.

Elements are recorded on the transcript and the diploma.

## Equivalency

Courses that are of equal credit value and which are considered to be similar enough that they always preclude one another and may serve interchangeably for the other in terms of prerequisites, co-requisites, and program requirements. These will be identified in the calendar as 'Also Listed As', and are commonly referred to as 'cross-listed courses'.

## Experiential Learning

Experiential learning is the application of theory and academic content to real-world experiences within the classroom, the community, or the workplace. It may be undertaken independently or in teams. It advances learning outcomes and encourages reflection and application of skills and knowledge in contexts that prepare students for the workplace and civil society.

## F

## Field

A Field occurs only at the graduate level, and is defined as an identifiable area of research activity undertaken by a group of faculty of sufficient number.

## Flex Term

Flex Term refers to the timing of delivery of 'asynchronous' on-line courses that are currently restricted to special students and in which they may register at any time. Special students may engage with the material of these courses at their own pace. The delivery of 'asynchronous' on-line courses does not therefore conform to the usual beginning and end of Carleton University terms.

Formative Assessment	Formative assessments are those assessments of a student's work carried out during the course that act to provide feedback and guidance to the student in addition to assessing the student's performance.
Free Elective	Free electives are any approved credit course normally at the 1000-level or higher – including courses from the discipline, disciplines or intellectual areas that identify the major of the degree program in question – that may be taken to make up the number of credits required for the degree program in question.

**G**

Good Academic Standing	At the undergraduate level, good academic standing signifies that a student is meeting the requirements for continuation in their program as defined in Section 3.2.6 of the <i>Academic Regulations of the University</i> .
------------------------	--

**H**

Honours Bachelor's Program	An undergraduate Bachelor's program requiring a minimum of 20.0 credits that may demand a higher academic standard than a non-honours program. Pathways to completion may be constituted by a thesis, research essay, capstone project, or other significant project.
----------------------------	---

**I**

Internship	<p>An internship is constituted through a course or sequence of courses that provides students with work experience directly related to the subject matter of their degree program. There are two types of undergraduate internships:</p> <ol style="list-style-type: none"> <li>1. Program Internship: an Option constituted by a structured sequence of at least 4.0 credits of courses of different levels in an honours bachelor's program taken in a work environment off-campus. A program internship provides students with extensive professional work experience directly related to the subject matter of their program.</li> <li>2. Course Internship: an individual course within a degree program taken in a work environment either on- or off-campus that provides students with professional work experience directly related to the subject matter of their program.</li> </ol>
------------	--

**L**

Learning Outcomes	Learning outcomes are discipline-specific statements that describe the observable skills or abilities associated with the essential knowledge, behaviours, and/or values all students are expected to acquire by the end of a course or program of study.
Letter of Permission	A formal document issued by the University Registrar approving a student to register in a course at another institution in lieu of a Carleton course in the student's academic program. The Letter of Permission must be issued before the student takes the course for credit in a Carleton program at another institution.

**M**

Major	A program Element recorded on the transcript and diploma. The major is constituted by the required course credits in one or more defined disciplines or intellectual areas that define the principle focus of a student's undergraduate program and constitute the basis for the calculation of the Major CGPA.
Major CGPA	The Major CGPA is calculated as the average grade points earned on the courses that constitute the major.
Mention : francais	An undergraduate Option noted on the transcript denoting specified courses taken in French, which may be used to fulfil program requirements.

## Minor

A program Element at the undergraduate level recorded on the transcript and diploma. A minor is a structured set of credits that form a distinct subset of a program or intellectual area. Each Minor requires at least 4.0 and at most 5.0 credits. Access to minors may be restricted. A minor introduces a student to, or extends their knowledge of, a discipline or intellectual area.

## O

## Option

An optional addition to or component of a program with requirements distinct from those of an Element: (i) Undergraduate: co-operative education, study abroad, Mention : francais, program internship; (ii) Graduate: co-operative education, Cotutelle (in Ph.D. programs), Dual Master's Degree (in master's programs), collaborative specialization. Options may be taken in addition to elements and are recorded on the transcript and the diploma.

## P

## Pathway

A pathway through a program is a route to completion such as: stream, thesis, research essay, research project, or course only. Pathways may be chosen in addition to Elements and Options, and are not recorded on the diploma but are recorded on the transcript.

## Practical Assessments

Practical assessments are those assessments, such as exams or term work, of a student's work where the tasks and conditions are similar to what they would experience in a work environment and are designed to complement their academic skills and competencies.

## Prerequisite

A required course or courses that must be completed successfully before registering in the course that requires the prerequisite.

## Preclusion

Courses that contain sufficient content in common that credit may not be earned for more than one of the courses. Courses that preclude one another are not necessarily considered equivalent and may or may not be interchangeable to fulfil program or specific element requirements.

A specified combination of academic requirements in a discipline or intellectual area of study which leads to a credential (for example, B.A. in Philosophy, Ph.D. in History, M.Sc. in Chemistry, Graduate Diploma in Public Policy and Program Evaluation, Certificate in the Teaching of English as a Second Language).

There are five types of programs at the undergraduate level:

1. Single-Discipline Program: A Single-Discipline program is a program of at least 15.0 credits in which the courses that constitute the program's major are drawn overwhelmingly from one discipline or intellectual area.

2. Thematic Program: A Thematic program is an interdisciplinary program of at least 15.0 credits that concentrates on a particular interdisciplinary intellectual area or theme, and draws on courses within its major from at least three disciplines or intellectual areas.

## Program

3. Single-Discipline Honours Program: A Single-Discipline Honours program is a program of at least 20.0 credits in which the courses that constitute the program's major are drawn overwhelmingly from one discipline or intellectual area. Pathways to completion constituted by a thesis, research essay or significant project may demand a higher academic standard than a course-based pathway.

4. Combined Honours Program: A Combined Honours program is a program of at least 20.0 credits in which a student fulfils the requirements for combined honours majors in two such majors from two different programs. Pathways to completion constituted by a thesis, research essay or significant project may demand a higher academic standard than a course-based pathway.

5. Thematic Honours Program: A Thematic Honours program is an interdisciplinary program of at least 20.0 credits that concentrates on a particular interdisciplinary intellectual area or theme, and draws on courses within its major from at least three disciplines or intellectual areas. Pathways to completion constituted by a thesis, research essay or significant project may demand a higher academic standard than a course-based pathway.

**R**

Restricted electives are courses required to fulfil elective requirements in an undergraduate program that are not free electives. The courses that may fulfil restricted elective requirements in any program are in other words prescribed by the program.

**Restricted Elective**

Students should refer to individual program descriptions to determine the courses that may fulfil restricted elective requirements for a program.

**S**

At the undergraduate level, the term 'specialization' is reserved for specific areas of concentration in programs in which the courses constituting the program's specializations are delivered overwhelmingly by academic units other than the academic unit administering the program.

**Specialization**

At the graduate level only collaborative specializations exist. See definition for 'collaborative specialization'.

**Special Students**

Students not admitted to a program or a degree leading to a Credential.

Full-time status for tuition fee purposes:

1. Undergraduate students are full-time when registered in a 60% course load per term as defined by the student's academic program: for example, registered in at least 1.5 credits per term in a 2.5 credit normal term course load. Undergraduate students should consult the website of the [Academic Advising Centre](#) to determine their eligibility for various Provincial and University services according to the number of credits taken each term.

**Status**

2. Graduate students are normally admitted and must stay continuously registered as full-time. Students may apply to the Dean of Graduate and Postdoctoral Affairs for exemption from full-time status in exceptional circumstances (for example, medical circumstances); exemptions are normally granted for one term.

Part-time status for tuition fee purposes:

1. Undergraduate students are part-time when registered in less than a 60% course load per term as defined by the student's academic program (for example, registered in less than 1.5 credits per term).
2. Graduate students may be admitted as part-time students and will be required to continue and complete their program as part-time; a part-time student is not eligible to register in more than 1.25 credits per term, including audit courses.

**Stream**

A Pathway within an undergraduate [program](#), [program](#) normally constituted by at least 1.5 credits of courses that facilitate [focus](#) [concentration](#) on a particular area of study within the program. Streams are not recorded on the diploma but are recorded on the transcript.

**Summative Assessment**

Summative assessments are those assessments of a student's work carried out at the end of a course or the end of specific components of a course whose sole purpose is to constitute a judgement on a student's performance in the course or a specific component of the course.

**T****Term GPA**

Within the Academic Continuation Evaluation for undergraduate and special students, the Term GPA is the ratio of the grade points earned on a course or courses to the total credit value completed in the term of assessment.

**Selected Topics** courses normally address topics which fall within a narrow range of topics within a common theme indicated by the course title. Students may not repeat selected topics courses for credit.

Topics Courses

**Special Topics** normally address topics chosen from a broad range of topics within a discipline. Their topics vary widely from year-to-year. Students may repeat special topics courses for credit when the topics vary. Academic credit granted for individual courses successfully completed at another institution, either upon admission (admitted with advanced standing from secondary school, or transfer from college or university) or while registered with a Letter of Permission or on exchange.

Transcript

The official record of a student's academic registration and accomplishments at Carleton University.

## U

Undeclared Students

Undergraduate students admitted to a degree who have not chosen a program ('declared a major') within that degree; normally, students are required to choose a program ('declare a major') upon or before completing 3.5 credits.

## W

A formal process for discontinuing studies in a course or a program.

Withdrawal

Undergraduate students who wish to drop all courses and terminate their registration in the academic program must follow the procedure available through the Registrar's Office. Students who have been away from the University for nine or more consecutive terms will be withdrawn and must re-apply for admission.

Graduate students who wish to drop all courses and terminate their registration in the academic program must notify their department in writing of their intention to withdraw. Students who do not register for three consecutive terms or do not register continuously in their thesis, research essay, or independent research project will be withdrawn and must re-apply for admission.

---

New Resources

No New Resources

Summary

Updating the definition of a Stream.

Rationale for change

With Sprott introducing its new Streams and allowing them to be stackable and not permitting double counting of any course used to fulfil a Stream, SCCASP would like to update the definition of this component so that these rules apply across the university.

Transition/Implementation

The RO will work with departments who already offer Streams to ensure that the principles of stackability and course uniqueness are appropriate within their academic framework, and if necessary will assist in creating degree-specific restrictions on certain Stream/program element combinations.

Program reviewer comments

**nataliephelan (09/20/22 2:45 pm):** Feedback from Sept 20/22 SCCASP meeting: glossary is not the place to put reference to multiple streams; that info belongs in the UG regulation. They agreed to introduce the word "focus" to avoid confusion with the word "concentration" as we have a specific definition for this as a program element.

Key: 1808

## MINOR MODS - COURSES

Code	Title	Status	Course Level	Faculty	Summary
<a href="#">IDES 3104</a>	<a href="#">IDES 3104: Exhibition Design</a>	Edited	UG	ENG	change prerequisite to IDES 2302
<a href="#">IDES 3105</a>	<a href="#">IDES 3105: Visual Communication and Package Design</a>	Edited	UG	ENG	change prerequisite to IDES 2302
<a href="#">IDES 3106</a>	<a href="#">IDES 3106: Advanced Computer Applications</a>	Edited	UG	ENG	add "Third or Fourth Year standing or permission of the School of Industrial Design" to prerequisite.
<a href="#">IDES 3107</a>	<a href="#">IDES 3107: Design and Sustainability</a>	Edited	UG	ENG	added "IDES 2302 and Third or Fourth Year standing" to prerequisite.
<a href="#">IDES 3305</a>	<a href="#">IDES 3305: Special Studies</a>	Edited	UG	ENG	added "and Third or Fourth Year standing" to prerequisite
<a href="#">IDES 3306</a>	<a href="#">IDES 3306: Special Studies</a>	Edited	UG	ENG	added "and Third or Fourth Year standing" to prerequisite
<a href="#">IDES 3502</a>	<a href="#">IDES 3502: Contextual Nature of Products</a>	Edited	UG	ENG	added "and Third or Fourth year standing" to prerequisite
<a href="#">IDES 3601</a>	<a href="#">IDES 3601: Research for Design</a>	Edited	UG	ENG	added "and Third or Fourth Year Standing" to prerequisite

## MINOR MODS - COURSES

	Code	Title	Status	Level	Faculty	Summary
Eff. 22-23	<a href="#">PADM 6201</a>	<a href="#">PADM 6201: Doctoral Research Seminar</a>	Edited	GR	PA	Change grade mode to SAT/UNS.
Eff. 22-23	<a href="#">ECMP 5000</a>	<a href="#">ECMP 5000: Engineering Communications</a>	Added	GR	ENG	*associated with the new program Master of Engineering - General*Add new course
Eff. 22-23	<a href="#">ECMP 5001</a>	<a href="#">ECMP 5001: Project Management</a>	Added	GR	ENG	*associated with the new program Master of Engineering - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5002</a>	<a href="#">ECMP 5002: Research Methods and Professional and Ethical Practice</a>	Added	GR	ENG	*associated with the new program Master of Engineering - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5003</a>	<a href="#">ECMP 5003: Entrepreneurship</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5004</a>	<a href="#">ECMP 5004: Engineering Economics</a>	Added	GR	ENG	*associated with the new program Master of Engineering - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5005</a>	<a href="#">ECMP 5005: Data Analytics</a>	Added	GR	ENG	*associated with the new program M.Eng. - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5006</a>	<a href="#">ECMP 5006: Governance, Policy Development and Decision-making</a>	Added	GR	ENG	*associated with the new program M.Eng. - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5007</a>	<a href="#">ECMP 5007: Climate Change and Sustainability</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5008</a>	<a href="#">ECMP 5008: Risk Analysis</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*Add new course
Eff. 22-23	<a href="#">ECMP 5009</a>	<a href="#">ECMP 5009: Research Seminar</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5099</a>	<a href="#">EGEN 5099: Directed Studies</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*Add new course
Eff. 22-23	<a href="#">EGEN 5100</a>	<a href="#">EGEN 5100: Reinforced and Prestressed Concrete Design</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5101</a>	<a href="#">EGEN 5101: Design of Steel Structures</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5102</a>	<a href="#">EGEN 5102: Masonry Behaviour and Design</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5103</a>	<a href="#">EGEN 5103: Pavements and Materials</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*Add new course
Eff. 22-23	<a href="#">EGEN 5104</a>	<a href="#">EGEN 5104: Traffic Engineering</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*Add new course

## MINOR MODS - COURSES

	Code	Title	Status	Level	Faculty	Summary
Eff. 22-23	<a href="#">EGEN 5105</a>	<a href="#">EGEN 5105: Foundation Engineering</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5106</a>	<a href="#">EGEN 5106: Fundamentals of Fire Safety Engineering</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5107</a>	<a href="#">EGEN 5107: Design for Fire Resistance</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5200</a>	<a href="#">EGEN 5200: Advanced Operating Systems</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5201</a>	<a href="#">EGEN 5201: Embedded Systems Development</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5202</a>	<a href="#">EGEN 5202: Secure Systems Engineering</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5203</a>	<a href="#">EGEN 5203: Test-driven and Agile Software Development</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5204</a>	<a href="#">EGEN 5204: In-memory and Stream Computing</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5205</a>	<a href="#">EGEN 5205: Software Development for Parallel and Distributed Architectures</a>	Added	GR	ENG	*associated with the new program proposal M.Engineering - Engineering Practice*Add new course
Eff. 22-23	<a href="#">EGEN 5206</a>	<a href="#">EGEN 5206: Web and Mobile Software Development</a>	Added	GR	ENG	*associated with new program MEng Eng Practice*add new course
Eff. 22-23	<a href="#">EGEN 5207</a>	<a href="#">EGEN 5207: Quantum Computing</a>	Added	GR	ENG	*associated with new program MEng Eng Practice*add new course
Eff. 22-23	<a href="#">EGEN 5300</a>	<a href="#">EGEN 5300: Signal Processing</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5301</a>	<a href="#">EGEN 5301: Integrated Circuits</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5302</a>	<a href="#">EGEN 5302: Modeling and Simulation of Electrical Circuits</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5303</a>	<a href="#">EGEN 5303: Sensor Systems</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5304</a>	<a href="#">EGEN 5304: Microprocessor Systems</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course

## MINOR MODS - COURSES

	Code	Title	Status	Level	Faculty	Summary
Eff. 22-23	<a href="#">EGEN 5305</a>	<a href="#">EGEN 5305: Power Systems</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5306</a>	<a href="#">EGEN 5306: Telecommunications Systems and Networks</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5307</a>	<a href="#">EGEN 5307: Control Systems and Robotics</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5400</a>	<a href="#">EGEN 5400: Overview of Environmental Engineering Principles</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5401</a>	<a href="#">EGEN 5401: Physical Processes in Water and Wastewater Treatment</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5402</a>	<a href="#">EGEN 5402: Biological Processes in Water and Wastewater Treatment</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5403</a>	<a href="#">EGEN 5403: Groundwater and Soil Remediation</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5404</a>	<a href="#">EGEN 5404: Solid Wastes and Landfill</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5405</a>	<a href="#">EGEN 5405: Air Pollution and Emission Control</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5406</a>	<a href="#">EGEN 5406: Climate Change and Engineering</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5407</a>	<a href="#">EGEN 5407: Environmental Impact Assessment</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5500</a>	<a href="#">EGEN 5500: Applied Fluid Mechanics</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5501</a>	<a href="#">EGEN 5501: Computational Fluid Mechanics</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5502</a>	<a href="#">EGEN 5502: Thermodynamics and Energy Systems</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5503</a>	<a href="#">EGEN 5503: Transport Phenomena (Heat and Mass)</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23	<a href="#">EGEN 5504</a>	<a href="#">EGEN 5504: Kinematics and Dynamics</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course

## MINOR MODS - COURSES

Code	Title	Status	Level	Faculty	Summary
Eff. 22-23 <a href="#">EGEN 5505</a>	<a href="#">EGEN 5505: Controls and Robotics</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23 <a href="#">EGEN 5506</a>	<a href="#">EGEN 5506: Mechanics and Fracture</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
Eff. 22-23 <a href="#">EGEN 5507</a>	<a href="#">EGEN 5507: Surfaces and Interfacial Phenomena</a>	Added	GR	ENG	*associated with new program M.Eng. - Engineering Practice*add new course
<a href="#">BIT 2000</a>	<a href="#">BIT 2000: Probability for Technology</a>	Edited	UG	ENG	Updated course title.
<a href="#">ITEC 2000</a>	<a href="#">ITEC 2000: Multimedia Data Management</a>	Edited	UG	ENG	Correcting the prerequisite statement.
<a href="#">ITEC 2100</a>	<a href="#">ITEC 2100: Data Visualization</a>	Edited	UG	ENG	Updating the course description and prerequisites.
<a href="#">ITEC 4011</a>	<a href="#">ITEC 4011: Artificial Intelligence for Digital Media</a>	Edited	UG	ENG	Updating the prerequisite to include ITEC 2400.
<a href="#">ITEC 4012</a>	<a href="#">ITEC 4012: Web Application Frameworks</a>	Edited	UG	ENG	Updating prerequisite to include IMD 1005 for IMD students who primarily take this course.
<a href="#">ITEC 4014</a>	<a href="#">ITEC 4014: User Experience Design and Accessibility</a>	Edited	UG	ENG	Adding prerequisite.
<a href="#">ITEC 4015</a>	<a href="#">ITEC 4015: Digital Audio and Music</a>	Edited	UG	ENG	Updated course description and prerequisite statement.
<a href="#">ITEC 4016</a>	<a href="#">ITEC 4016: Virtual and Augmented Reality</a>	Edited	UG	ENG	Updating prerequisite.
<a href="#">ITEC 4017</a>	<a href="#">ITEC 4017: Photo and Non-Photo-Realistic Rendering</a>	Edited	UG	ENG	Adding prerequisite statement.
<a href="#">ITEC 4019</a>	<a href="#">ITEC 4019: Directing and Cinematography for Digital Storytelling</a>	Edited	UG	ENG	Adding prerequisite statement.
<a href="#">ITEC 4020</a>	<a href="#">ITEC 4020: Environment and Architectural Modelling</a>	Edited	UG	ENG	Added prerequisite statement.
<a href="#">NET 3010</a>	<a href="#">NET 3010: Web Programming</a>	Edited	UG	ENG	Course description update.
<a href="#">OSS 1002</a>	<a href="#">OSS 1002: Photonics and Optoelectronics Applications</a>	Edited	UG	ENG	Updating the course title.
<a href="#">OSS 1006</a>	<a href="#">OSS 1006: Introduction to Automation and Simulation</a>	Edited	UG	ENG	Adding prerequisite course.
<a href="#">OSS 2002</a>	<a href="#">OSS 2002: Optical Communication Networks I</a>	Edited	UG	ENG	Updated course description. Replacing the word "WebServers" with "WaveServers"