

## Minors in Engineering

*In meeting the specific requirements for any minors available to Engineering students, no more than 50% of the credit hours required for a minor may be common with those forming part of a student's regular Engineering program. Normal pre-requisites and class size restriction apply to courses taken towards minors.*

### Arts Minor

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A Minor in Arts is available to Engineering students. The minor consists of 18 credit hours of Arts courses, at the 1000 level or above and must include a minimum of 6 credit hours in the Humanities and 6 credit hours in the Social Sciences; students must meet all pre-requisite requirements. *ARTS 1110 Introduction to the University* may not be included in the minor. Depending on the approval of the Engineering department, courses used for the minor may also be used to fulfill program requirements in Engineering.

### Computer Science Minor

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A Minor in Computer Science is available to Engineering students. The minimum requirement is 18 credit hours of computer science courses subject to the following constraints: (1) Courses COMP 1012, COMP 1020, and COMP 2140 are compulsory; (2) 9 additional credit hours of COMP courses at the 2000 level or above; and (3) registration in computer science courses will be controlled by normal pre-requisites and class size restrictions.

### Geological Sciences Minor

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The Minor in Geological Sciences includes the following set of courses: (1) GEOL 1340; (2) One of the following three courses: GEOL 1400, GEOL 1410 or GEOL 1420; and (3) Twelve (12) credit hours of courses in Geological Sciences at the 2000-level or above.

### Management Minor

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The Minor in Management offered by the Faculty of Management is available to Engineering students. The minor consists of any 18 credit hours of Management courses; students must meet all prerequisite requirements. Depending on the approval of the Engineering department, courses used for the minor may also be used to fulfill program requirements in Engineering. Admission requirements for the minor are based on all courses transferred to Engineering or completed while in Engineering; the requirements are a minimum of 30 credit hours applied to their degrees with a minimum Degree Grade Point Average (DGPA) of 3.00. Up to 10 spaces are available each year for engineering students on a competitive basis. Applications can be made in the Engineering Dean's office by May 30th.

Note 1. Civil Engineering student only may use CIVL 2780 for credit towards the Management Minor in Engineering.

Note 2. Mechanical Engineering students only may use MECH 3170 for credit towards the Management Minor in Engineering.

## Mathematics Minor

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A Minor in Mathematics is available to Engineering students. The minimum requirement is 24 credit hours of mathematics courses subject to the following constraints: (1) the students must notify their home department that they are pursuing the minor; (2) up to 12 credit hours of mathematics courses in a student's engineering program may be counted toward the minor; (3) the student must complete at least 6 credit hours of courses from the mathematics department at the 3000 level or higher that are not included as part of the curriculum in the student's engineering program; and (4) approval of the Department of Mathematics is required for courses outside of the regular engineering program.

## Music Minor

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The Minor in Music requires 18 credit hours of MUSC courses and students are subject to the regulations set by the Marcel A. Desautels Faculty of Music.

**Required Courses (6 credit hours):**

- MUSC 1280 Musical Style & Structure 1 (3)
- MUSC 1290 Musical Style & Structure 2 (3)

**Electives (Choose 12 credit hours):**

Please see SECTION 4.7 Music Minors under the Marcel A. Desautels Faculty of Music section of the Academic Calendar for the list of elective courses.

## Recreational Studies Minor

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The Minor in Recreational Studies requires 18 credit hours of approved coursework. Students are subject to the regulations set by the Faculty of Kinesiology and Recreational Management.

To qualify for and declare the Minor in Recreation Studies, students must achieve a grade of "C" or better in the two introductory courses PERS 1300 and PERS 1400. A student must obtain approval and declare the minor with their home faculty for access into advanced REC courses.

**Required Courses (12 credit hours):**

- PERS 1300 Introduction to Leisure Travel (3)
- PERS 1400 Concepts of Recreation and Leisure (3)
- REC 2400 Management and Marketing of Leisure Services (3)
- REC 3090 Sustainable Nature-Based Tourism (3)

**Electives (Choose 6 credit hours from the following):**

- REC 4090 Sustainable Nature-Based Tourism Planning, Management and Research (3)
- REC 4170 Sport Management (3)
- REC 4250 Leisure and Aging (3)
- REC 4400 The Administration of Special Events (3)
- REC 4350 Parks and Protected Areas Planning and Management (6)  
(Summer Session Travel Study – Instructor Permission Required)
- PERS 4200 Special Topics (3)

\*\*Students may complete up to 12 credit hours from the Recreation Studies Minor course list without declaring the minor. Students who declare the minor must take the minimum 18 credit hours but will be allowed to take up to 30 hours from the above courses.