The minor in surveying and mapping is principally designed for civil engineering students that would like to sit for the Fundamentals of Surveying (FS) exam. The coursework consists of a minimum of 19 credit hours distributed in the following manner.

**Prerequisites**
CE 2410 (3)

**Required courses (19 credit hours)**
- CE 2090 (1)
- CE 5410 (3)
- CE 5411 (4)
- CE 5412 (4)
- CE 5441 (3)
- CE 5461 (4)

For further information about the minor program, contact the department.

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**Surveying and Mapping minor program guidelines**

The following guidelines govern this minor:

**Required for graduation** No

**Credit hours required** A minimum of 19 credit hrs. At least 6 credit hrs must be 3000-level or above.

**Transfer and EM credit hours allowed** A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination.

**Overlap with the GE** A student is permitted to overlap up to 6 credit hours between the GE and the minor.

**Overlap with the major and additional minor(s)**
- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minor(s).

**Grades required**
- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Coursework graded Pass/Non-Pass cannot count on the minor.

**Minor Approval** A student who completes the minor following the requirements need only file their college's minor program form with their academic advisor or college office.

**Filing the minor program form** The minor program form must be filed at least by the time the graduation application is submitted to a college/school counselor.