A student has considerable freedom in planning his/her M.S.C.E. program. Guidelines for curriculum are established by each discipline group. The faculty has a great amount of formal training, practical experience and ongoing research in the following areas: Environmental engineering, water resources, geotechnical engineering, structures/mechanics, and transportation engineering. Well-equipped laboratories in these and related areas are available for research. Graduate students normally specialize in one of these fields (also referred to as "areas of concentration").

The College cooperates with the Mathematics Department in offering two courses, Mathematics 4037 and 4038, Mathematical Methods in Engineering (also listed as ME 4533 and 4563). These courses or any approved course in mathematics numbered above 4000 may be scheduled to satisfy the mathematics/statistics requirement of the M.S. degree or as electives in any graduate program. However, credit will not be given for Math 4037 if the student has received credit for either Math 2065 or Math 2090 (or equivalent courses).

All students are strongly encouraged to review and follow the Master’s in Civil Engineering Program Checklist, found on the forms page.

There are two options leading to the M.S.C.E. degree. The thesis option requires the student to complete a minimum of twenty-five (25) hours of approved course work and to submit an acceptable thesis worth 6 hours. The non-thesis option requires the student to complete a minimum of thirty-four (34) hours of approved course work and a Master's Report worth 3 hours. General guidelines for selecting courses in these two programs are given below.

Subject to approval of the advisory committee and Department, students transferring from graduate programs of other institutions can transfer a maximum of 50% credit hours of course work done.
Full time graduate students must register for the one credit hour seminar class (CE 7750) each and every semester. Part-time graduate students are required to register for this seminar only in their graduating semester. Only one hour of CE 7750 may be applied to satisfy the course requirements.

**THESIS OPTION REQUIREMENTS**

Course work:

12 semester hours in the major field or interest
9 semester hours from a related field
3 semester hours of approved mathematics/statistics
1 semester hour of Graduate Seminar (CE 7750)
Total 25

Thesis: 6 semester hours of thesis

**NON-THESIS OPTION REQUIREMENTS**

Course work:

12 semester hours in the major field of interest
18 semester hours from a related field
3 semester hours of approved mathematics/statistics
1 semester hour of Graduate Seminar (CE 7750)
Total 34

Project: 3 semester hours of project (CE 7740)

For the thesis option, at least twelve hours of the required graduate work must be at or above the 7000 level (thesis and seminar credit hours are not considered towards satisfying this requirement). A minimum of 12 credit hours must be in civil engineering. The students pursuing the non-thesis option will have to complete at least eighteen hours of the required graduate work at or above the 7000 level (thesis and seminar credit hours are not considered towards satisfying this requirement). A minimum of 18 credit hours must be in civil engineering. Courses numbered below 7000 (i.e., 4000) may be taken for credit if approved on the Graduate Degree Program. In some instances, courses may be added to a student's program (with no credit toward the M.S.C.E. degree) to correct deficiencies in a student's undergraduate education.

During a student's terminal semester, each student is required to pass a comprehensive Master's examination covering work related to research and course work. This examination will be administered by the student's advisory committee and may be oral and/or written. The Graduate School's Request for Master's Examination form (found on the Graduate School form page) for scheduling and reporting results of this examination must be filed with the Graduate School three (3)
weeks prior to the date of the examination. This examination may be re-taken only once.