

MASTER OF ENGINEERING IN STRUCTURAL ENGINEERING

These master of engineering programs are course-only, professionally-oriented degree programs that permit a concentration in preparation for engineering practice. Admission requirements to these programs are the same as those for the master of science program. Candidates in these programs must complete a minimum of 32 credit hours, up to four of which may be a special project course—CAE 594, CAE 597, or ENVE 597. Up to 12 credit hours of 400-level undergraduate coursework (except CAE 431 and CAE 432) may be included in the master of engineering program with prior adviser approval. No thesis or comprehensive examination is required for completion of the degree.

The Master of Engineering in Structural Engineering provides students with the knowledge needed to design the built environment. Students learn how buildings and bridges may be designed to resist the forces imposed upon them by external loads, gravity, wind, and earthquakes. Up-to-date computer-aided design techniques and the latest national building codes dealing with steel, reinforced concrete, pre-stressed concrete, and masonry structures are treated.

Curriculum

Code	Title	Credit Hours
Core Courses		(13)
MMAE 501	Engineering Analysis I	3
or CAE 514	Math Methods for Struct Engrng	
CAE 503	Advanced Structural Analysis	3
CAE 518	Advanced Reinforced Concrete	3
CAE 525	Advd Steel&Composite Structure	4
General Electives		(19)
Select 19 credit hours		19
Total Credit Hours		32