

Applied Engineering M.S.A.E. (Concentration in Mechanical Engineering) (Thesis)

Degree Requirements: 30 Credit Hours (Thesis)

Admission Requirements

Regular

1. Completed requirements for the Bachelor's degree at a college or university accredited by the proper regional accrediting association.
2. An undergraduate degree or the equivalent in the proposed or closely related field of study.
3. A 2.75 (4.0 scale) cumulative grade point average or higher on courses in undergraduate work, or equivalent.
4. International students must meet College of Graduate Studies English Proficiency requirements.
5. The Master of Science in Applied Engineering program with an Information Technology concentration requires: a) a bachelor's degree in computer sciences, information systems, information technology, or related field and a minimum of 2-years of work experience in IT or related field; or b) a bachelor's degree and a least 4-years of work experience in IT or related field; or c) permission of the Graduate Program Director.

Provisional

A student may be granted provisional admission based upon the recommendation of the Master of Science in Applied Engineering Graduate Coordinator or department chair.

Non-Degree

Non-degree students are accepted on an individual basis as space is available.

Program Concentrations

The Master of Science in Applied Engineering degree program provides concentrations in Advanced Manufacturing Engineering, Civil Engineering and Construction, Electrical & Electronic Systems, Mechanical Engineering, Mechatronics, Energy Science, Engineering Management, and Information Technology.

A minimum of 50% of courses for the Master of Science in Applied Engineering degree must be taken at or above the 6000 level.

Degree Requirements

	Credit Hours
Core Requirements	
MATH 5530G Mathematics for Scientists and Engineers	3
MENG 7137 Principles of Modeling and Simulation	3
TMAE 7136 Mechatronics I	3
TMAE 7530 Research in Applied Engineering	3
Restricted Elective courses at or above the 5000G level as contracted with the faculty advisor and degree coordinator	12

TMAE 7999 Thesis	6
Other Thesis Track Requirements	
Comprehensive Exam	
Total Credit Hours	30

Thesis

Each candidate for the Master of Science in Applied Engineering Thesis Track degree must complete a thesis on a subject approved by the graduate thesis committee. The major professor supervises the research, directs the writing of the thesis, and approves the thesis in its final form. Prior to the final approval, the thesis is read by the thesis committee. One member, termed the second reader, has responsibility for an intensive and rigorous criticism of the thesis and a third member of the thesis committee has the responsibility of an "editorial reader." Both second and third readers must report all comments to the major professor. The thesis must be defended in an oral examination before the graduate committee prior to final approval and sign-off.

The style and format for the completed thesis shall follow that prescribed by the Director for the Master of Science in Applied Engineering degree. Procedural steps in the preparation of the thesis are as follows:

- The prospectus for the thesis shall be submitted to the major professor and thesis committee for approval.
- The student must prepare the thesis for electronic submission following the latest version of the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing manual.
- The thesis must be electronically submitted to the ETD site for format check by the final thesis submission deadline as stated in the University Calendar.
- The final corrected thesis must be electronically submitted to the ETD site by the ETD format check submission deadline as stated in the University Calendar. The final document must be electronically approved by the Thesis Committee.

See the Electronic Thesis and Dissertation (ETD): Student Guide to Preparation and Processing (latest version at the COGS Electronic Theses and Dissertation website).

The MSAE concentration in Mechanical Engineering is no longer accepting incoming students. Please visit the catalog page for the MS in Mechanical Engineering degree program to begin your advanced studies in this area.