

ENGINEERING TECHNOLOGY (M.S.)

The Master of Science in Engineering Technology (M.S.E.T.) program is designed to meet the needs of adults who wish to expand or upgrade their knowledge within the areas of their previous training or current profession. It provides for highly individualized graduate study, and is designed to promote greater depth of understanding in a field of specialization beyond the bachelor's level. It allows more advanced coverage in specialized topics, develops more rigorous analytical skills, helps to advance expertise, and prepares graduates to perform more sophisticated and independent work.

Admission Requirements and Student Selection Procedures

Admission to the M.S.E.T. degree program is contingent upon admission to the Graduate School (<http://bulletins.wayne.edu/graduate/general-information/admission/>). Additionally, all applicants must:

1. Hold a bachelor's degree in engineering technology or a related discipline from a college or university of recognized standing, or the equivalent;
2. Have maintained at least a 'B' average (3.0 g.p.a.) in undergraduate coursework;
3. Provide at least two letters of recommendation from persons acquainted with the applicant's academic achievement at the institution most recently attended (applicants whose academic references date back more than five years may substitute other references, if desired);
4. Submit with his/her application a preliminary proposal for the intended plan of study which includes a general set of objectives and an outline of types of coursework or other educational projects to be pursued;
5. Applicants who do not meet the 3.0 g.p.a. requirement but whose g.p.a. does fall within the Graduate School's qualified admission span (2.5 to 2.9 g.p.a.) may be admitted with a conditional status. Immediately upon successful completion of two graduate-level courses with a grade of 'B' or above, the candidate must request in writing that his/her status be changed to regular status.
6. Students will be required to submit a finalized Plan of Work, listing all the courses the student intends to take to fulfill the degree requirements. The Plan must be developed with the aid of the student's faculty advisor and is generally submitted by the time the student has earned eight credits.

Program Requirements

The Master of Science in Engineering Technology degree is offered under the following options:

PLAN B: A minimum of thirty credits in graduate-level (numbered 5000 and above) course work, including a four- to six-credit Master's Project (ET 7999).

PLAN C: A minimum of thirty credits of graduate level course work (numbered 5000 and above).

For either plan, students must complete the core requirement, ET 7430. A minimum grade of 'B' is required in this core course, and the grade of 'F' grade is not acceptable in any course. In addition to fulfilling the general scholarship requirements of the Division, all course work must be completed in accordance with the regulations of the Graduate School ([http://bulletins.wayne.edu/graduate/general-information/academic-](http://bulletins.wayne.edu/graduate/general-information/academic-regulations/)

[regulations/](http://bulletins.wayne.edu/graduate/college-engineering/academic-regulations/)) and the College of Engineering (<http://bulletins.wayne.edu/graduate/college-engineering/academic-regulations/>).

Master's Project: ET 7999 integrates the knowledge gained in coursework, laboratory studies, and prior work experience to provide a focused activity demonstrating the student's ability to perform master's-level work. The master's project should include elements of design, synthesis, fabrication, modeling and simulation, CAD/CAM, and empirical and theoretical analysis balanced in a manner appropriate to the student's specific project.

A member of the Division of Engineering Technology faculty holding a graduate faculty appointment chairs the student's Master's Project Advisory Committee. (Individuals outside the Division directing master's project research must hold an adjunct graduate faculty appointment.) An adjunct graduate faculty member may co-chair the Committee. Using the form provided by the Division, the student must submit a proposal indicating the scope of the project, the problem to be solved, the nature of the system to be studied, the plan of approach and work plan for the activity, facilities and resources to be employed, and the student's qualifications for performing this work. The Master's Project Advisory Committee may accept, decline, or request resubmission of the proposal as explained to the student.

Only students with accepted proposals are allowed to register for ET 7999. Requests to elect additional credits in ET 7999 beyond those originally allowed by the Master's Project Advisory Committee must also be approved by the Committee.

Residency Requirement: Of the required credits for the M.S.E.T. degree, a minimum of eighteen must be Division of Engineering Technology courses. A maximum of eight transfer credits may be allowed for graduate courses taken at other accredited institutions, if they are appropriate to the student's plan of study. Up to eight credits in graduate courses completed at Wayne State as a non-degree graduate student may be applied toward degree requirements and must be included in the applicant's preliminary Plan of Work. Minimum completion period for the degree is three semesters.