

MECHANICAL & MANUFACTURING TECHNOLOGY (M.S.)

Master of Science Program

Program Code: MA-SP

Major Code: MMT

Engineering Technology Department

Technology Building 126

(716) 878-6017

engineeringtechnology.buffalostate.edu (<https://engineeringtechnology.buffalostate.edu/>)

The Master of Science degree in Mechanical Engineering Technology (MSMET) will provide students with a background in applied engineering methods utilizing the latest design and analysis software and hardware. Program requirements provide advanced concepts of engineering and project administration for the Mechanical Engineering Technology MS degree. The degree program is designed for recent graduates from engineering and engineering technology 4-year degree programs as well as for engineers with industrial experience. It may aid in career advancement by providing the graduate with academic experience with applied engineering concepts that will coincide with advanced methods in design, analysis, project administration, engineering management, and manufacturing emphasizing mechanical engineering technology. This flexible degree program permits the student to develop a program of study, with faculty approval, to meet individual career goals. Degree concentrations are designed to provide graduates with technical and professional skills that will facilitate preparation for, and advancement in, leadership positions in industry, education, government and the military.

Admission Requirements

1. A bachelor's degree from an accredited college or university with a minimum cumulative GPA of 2.75 overall, and 3.0 (4.0 scale) in a major such as Mechanical Engineering (ME) or Mechanical Engineering Technology (MET); or the consideration of a degree (MET, ME or other such technician degree) and a minimum combined quantitative/verbal score of 1000 on the Graduate Record Examination (GRE). The department may grant conditional admission to the program, if the minimum requirements are not met. Any additional work requirements or waivers of general prerequisites for admission shall be set by the department at the time of acceptance.
2. A current résumé.
3. An application letter which describes what the student is looking to accomplish in this program and how it will help them achieve their career goals.
4. If necessary, an interview with at least two faculty members of the Engineering Technology Department;

the Department will contact the applicant to make an appointment for this interview, after the complete application package is received.

5. Three letters of reference, attesting to the applicant's Mechanical & Manufacturing Technology competence and readiness for this program.

In addition, all applicants should review the Admission to a Graduate Program (<http://ecatalog.buffalostate.edu/graduate/> (<http://ecatalog.buffalostate.edu/graduate/>) admission-graduate-program) section in this catalog.

Application Procedures

1. Obtain application information online at graduateschool.buffalostate.edu/admissions
2. Request sealed official transcripts from all higher education institutions attended and submit them with the complete application packet to Graduate School.
3. Obtain approval from the Graduate Studies Committee, the department chair, and the Graduate School.

Admission applications are not complete until all required forms, documents, and data are received.

Program Requirements

Code	Title	Credit Hours
Required Courses (15 credit hours)		15
INT 601	ENGINEERING ECONOMY	3
MMT 611	ADVANCED ENGINEERING MODELING	3
MMT 615	SUSTAINABILITY IN DESIGN	3
MMT 620	MANAGING ENGINEERING PROJECTS	3
MMT 675	ADVANCED ENGINEERING SYSTEM DESIGN	3
Elective Courses (9-12 credit hours)		
INT 610	MANAGERIAL MARKETING	3
INT 612	QUALITY CONTROL MANAGEMENT	3
All elective courses taken need prior approval from the student's adviser.		
Research (3-6 credit hours)		
MMT 690	MASTER'S PROJECT	6
Professional Experience (0-6 credit hours)		
MMT 685	PROFESSIONAL EXPERIENCE INTERNSHIP	3
Total Required Credit Hours		30-36