

Mechanical Engineering Technology

Mechanical Engineering Technology Associate in Applied Science

Mission Statement:

The Mechanical Engineering Technology program will equip graduates to use their knowledge and training to provide technical support and/or quality design to manufacturing/engineering processes for their employer and encourage staying abreast of changing technologies through continued lifelong learning.

Entrance Requirements:

Acceptable placement test score(s); plus high school diploma or GED

Type of Program:

Day or evening

- The MET program is accredited by the Engineering Technology Accreditation Commission of ABET (www.ABET.org).
- The MET Department has a 2+2 cooperative agreement with the University of South Carolina-Upstate for students to complete a Bachelor of Science in Engineering Technology Management.
- The MET Department has a cooperative agreement with Western Carolina University for students to complete a Bachelor of Science in Engineering Technology.
- The body of knowledge covered in the Certified Manufacturing Technologist (CMfgT) examination, which is included in the certification program of the Society of Manufacturing Engineer's (SME) Manufacturing Engineering Certification Institute (MECI) may be covered.
- Transferring to a four-year engineering technology program — If a student desires to pursue a Bachelor of Science in Engineering Technology from a four-year university, it is recommended he/she pursue schools that have ETAC/ABET accreditation in the program of interest. This should simplify the acceptance of all or the majority of the course work, taken at Greenville Tech to other institutions with ETAC/ABET accredited programs.
- Transferring to a four-year engineering program — If a student wishes to pursue a bachelor of science in engineering from a four-year university, it is recommended he or she pursue schools that have EAC (Engineering Accreditation Commission)/ABET accreditation in the program of interest. About one-half (12 of 24) of the MET program's courses are either the same, or closely related to, the engineering courses that are a part of the Associate of Science Degree with an Engineering Transfer Track. The primary difference is that the engineering courses in the transfer program are based on calculus, while the courses in the MET program are based primarily on algebra and trigonometry. Therefore, any student who is considering pursuing a bachelor of science degree in engineering may wish to consider taking the calculus-based courses instead. Substitutable courses are identified in **bold in parentheses** in the course listing below. In addition, required general education courses, such as English Composition I (ENG 101), and many of the social science and humanities electives, should transfer to the four-year college or university of interest as well. Keep in mind that if there is any desire to transfer to another college or university, the student should discuss transfer requirements early in his or her academic career with a representative from the college or university to which he or she plans to transfer. It is also important to share this information with the student's MET advisor at Greenville Tech.

Recommended Program Schedule

First Semester - Fall

EGR	130	Engineering Technology Applications & Programming (EGR 269***)	3.0
EGR	170	Engineering Materials (EGR 206)	3.0
EGT	110	Engineering Graphics I	4.0
MAT	110	College Algebra	3.0
ENG	101	English Composition I	3.0

Second Semester - Spring

EGR	175	Manufacturing Processes	3.0
EGR	275	Introduction to Engineering/Computer Graphics (Solid Works) or	
EGR	210	Introduction to Engineering CAD (AutoCAD)	3.0
MAT	111	Trigonometry	3.0
PHY	201	Physics I (PHY 221)	4.0
SPC	205	Public Speaking	3.0

Third Semester - Summer

EET	227	Electrical Machinery	3.0
EGR	194	Statics & Strength of Materials (EGR 260)	4.0
PHY	202	Physics II (PHY 222) or	4.0
CHM	110	College Chemistry I	
QAT	109	Introduction to Metrology	1.0

Fourth Semester - Fall

MAT	140	Analytical Geometry & Calculus I or	4.0 or 3.0
MAT	120	Probability & Statistics	
MET	211	Strength of Materials (EGR 204***)	4.0
MET	214	Fluid Mechanics	3.0
MET	235	Manufacturing Engineering Principles Technical Elective I*	2.0 3.0

Fifth Semester - Spring

MET	231	Machine Design	4.0
EGR	255	Engineering Technology Senior Systems Project Technical Elective II*	2.0 3.0
		Humanities Elective	3.0
		Social Science Elective	3.0

Total Required Credit Hours:**74.0**

Courses in **BOLD**, (12 of 24) above, usually transfer to Clemson or the University of South Carolina.

*Department head approved co-op may be used to substitute for up to three (3) hours of technical electives.

Note: Cooperative education is highly recommended by the department. Technical electives may come from any Engineering Technology program or department head approval required for an industrial technology course.

**The course schedule listed above is designed for students who begin the program with ENG 101 and MAT 110 (MAT 140) based on the college placement.

***Students who substitute EGR 269 for EGR 130 and/or EGR 204 for MET 211 must take an additional credit hour for each to meet the total hours required for graduation.

Note: Please contact your advisor for evening schedules

Visit <https://www.gvltec.edu/gainful-employment/> for important information about the educational costs, earnings and graduation rates of students who completed the aforementioned program.