



ENGINEERING TECHNOLOGY (612)

Associate of Science

ABOUT OUR PROGRAM

This program is intended to provide the first two years of a four-year baccalaureate program. Students in this major will use their technical skills and knowledge of science and math in the support of engineering activities. Students should have interests in mechanical and electrical devices and mathematics, skills in using instruments, ability to make accurate observations and measurements, and ability to work with others as a part of a team.

NATURE OF WORK AND EMPLOYMENT

After attaining a baccalaureate degree, students may work in one of several different engineering specialties including aeronautical, civil, industrial, mechanical, chemical, or metallurgical. Engineering Technicians are employed by companies in the electrical equipment, machinery, aerospace, and construction industries; by radio and TV stations; engineering and architectural firms; and by organizations in other fields. Faster than average job growth is projected due to anticipated increases in research and development expenditures and the expected growth in the output of technical products.

SPECIAL CONSIDERATIONS

Those interested in engineering should have an aptitude for science, mathematics, problem solving, and versatility. Good verbal and written skills along with the ability to work on a team are also needed. **The guideline listed is recommended only. Students should check with a student advisor for specific university requirements in this major.** See page 59 for General Education requirements. Each student must meet with an advisor to ensure that the special requirements of the department and the institution to which they plan to transfer are fully met.

PROGRAM CONTACTS

Call Highland at 815-235-6121 for the following program contacts:

- Mr. Alan O'Keefe, Physics Faculty
- Mr. Thedford Jackson, Transfer Coordinator/Student Advisor

FIRST SEMESTER 18 Sem. Hours

DRAF	151	Engineering Graphics	4
* ENGL	121	Rhetoric and Composition I	3
* MATH	168	Analytic Geometry and Calculus I	5
* PHYS	141	Introductory Physics I	4
PHYS	120	Intro to Engineering	2

SECOND SEMESTER 18 Sem. Hours

* ENGL	122	Rhetoric and Composition II	3
* MATH	268	Analytic Geometry and Calculus II	5
* PHYS	142	Introductory Physics II	4
		Fine Arts Requirement	3
		Social/Behavioral Science Requirement	3

THIRD SEMESTER 13 Sem. Hours

BIOL	110	Principles of Biology	4
* CHEM	123	General College Chemistry I	5
* MATH	262	C Programming for Science/Engineering	4

FOURTH SEMESTER 15 Sem. Hours

* ECON	111	Principles of Economics I	3
SPCH	191	Fundamentals of Speech	3
		HIST/POL Requirement	3
		Humanities/Fine Arts Requirement	3
		Humanities Requirement	3

Total Hours = 64

* Course has a prerequisite. See course descriptions.

Suggested electives (see your advisor)

- * PHYS 221 Mechanics I (Statics)
- * PHYS 222 Mechanics II (Dynamics)