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 50 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. 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)