

95-13

June 23, 1995

**BACHELOR OF SCIENCE IN ENGINEERING TECHNOLOGY
ENVIRONMENTAL TECHNOLOGY OPTION (code 3-4381)**

The following program was recommended by the Academic Senate on May 11, 1995 and received the concurrence from the President on June 16, 1995.

All students majoring in the Environmental Technology Option are required to complete the courses designated Group A "General Education," Group B "Lower Division Core Courses for Engineering Technology programs," Group C "Upper Division Core Courses for Engineering Technology programs," Group D "Lower Division Environmental Technology Option Courses," Group E "Upper Division Environmental Technology Option Courses," and Group F "Upper Division Environmental Technology Option Elective Courses" as listed below:

Group A: General Education: (30)

- Category A - Communication (9)
- Category B - Physical Universe (12)*
- Category C - Humanities (12)*
- Category D - Social Sciences (15)*
- Category E - Self-Integration (3)*

* Engineering Technology students are allowed a 6-unit waiver from these categories to meet the demand of a high unit major (135+ units).

Group B: Lower Division Core Courses for Engineering Technology Programs: (33)

- ET-101 - Introduction to Engineering Technology (1) F,S
- ET-170 - Engineering Drafting (2) F,S
- CHEM-111A - General Chemistry (5)
- MATH-117 - Precalculus Mathematics (4)
- MATH-120 - Technical Calculus (4)
- PHYS-100A & B - General Physics (8)
- ET-202 - Probability and Statistics for Technology (4) F,S,SS
- ET-204 - Applied Mechanics-Statics (3) F,S,SS
- ET-205 - Computer Applications (1) F,S,SS
- ET-205L - Computer Applications Laboratory (1) F,S,SS

Group C: Upper Division Core Courses for Engineering Technology Programs: (25)

Complete all of the following:

- ECON 300 - Fundamentals of Economics (3)
- ET 300 - Industrial Communications (3) F,S,SS
- ET 301 - Materials of Industry (2) F,S
- ET 301L - Materials of Industry Laboratory (1) F,S
- ET 306 - Manufacturing Processes I (2) F,S
- ET 306L - Manufacturing Processes I Laboratory (1) F,S
- ET 307 - Industrial Safety (2) F,S,SS
- ET 309 - Industrial Leadership (2) F,S,SS
- ET 311 - Quality Engineering (3) F,S,SS

- ET 410 - Cost Engineering (3) F,S,SS
- ET 418 - Production Methods and Process Analysis (3) F,S

Group D: Lower Division Environmental Technology Option Courses:

All students must complete the courses listed below at a community college:

- ET 206 - Introduction to Environmental Hazardous Materials Technology (3)
- ET 208 - Hazardous Waste Stream Generation, Reduction, Treatment (3)
- ET 209 - Health Effects of Hazardous Materials (3)
- ET 210 - Hazardous Waste Management Applications (3)
- ET 212 - Hazardous Materials Management Application (3)
- ET 213 - Safety and Emergency Response (3)

Group E: Upper Division Environmental Technology Option Courses:

- ET-319 - Environmental Law and Compliance (3)
- ET-329 - Environmental Groundwater/Soils (2)
- ET-331 - Environmental Auditing and Reporting (3)
- ET-333 - Solid Waste (2)
- ET-333L - Solid Waste Laboratory (1)
- ET-334 - Instrumentation Applications (2)
- ET-334L - Instrumentation Applications Laboratory (1)
- ET-407 - Environmental Systems Safety and Emergency Management (3)
- ET-449 - Environmental Air Quality (2)
- ET-449L - Environmental Air Quality Laboratory (1)

Group F: Upper Division Environmental Technology Option Elective Courses:

Plus nine units of approved electives selected in consultation with an advisor from:

- ET-409F - Senior Problems in Environmental Technology (1-3) F,S
- ET-483 - Environmental Impact (3)
- ET-499 - Environmental Assessment (3)
- H/SC-400 - Principles of Epidemiology (3) F,S
- H/SC-401 - Community Health Education (3) F,S
- H/SC-422 - Environmental Health (3) F,S

EFFECTIVE: Fall 1995