

**Approved Major Electives
Civil Engineering Technology Program
APPROVED 3/29/07**

Departmental courses		
Lower Division Courses (maximum of one)		
Course	Prerequisites	Offered
ETFS 2132 Building Construction for Fire Protection (3)		
ETFS 2144 Fire Protection Systems (3)		
ETGR 2106 Electric Circuits (3)	MATH 1103	
Upper Division Courses		
Course	Prerequisites	Offered
ETCE 3123 Cost Estimating (3)	ETCE 1222, ETCE 2112 or AAS	Fall
ETCE 3271 Building Systems (3)	ETCE 2410	Spring
ETCE 4073 Special Topics – Civil Engineering Technology (1-4)	Senior standing & consent of instructor	On demand
ETCE 4126 Project Scheduling and Control (3)	ETCE 3123	Fall
ETCE 4344 Applied Hydrology and Storm Water Management (3)	ETCE 3242	On demand
CMET 4125 Construction Codes and Contract Documents (2)	Junior standing or AAS	Fall
CMET 4127 Construction Law and Regulatory Issues (3)		On demand
CMET 4228 Construction Office Operations (2)	CMET 3224	Spring
ETFS 3113 Building Fire Safety (3)		
ETGR 3272 Applied Numerical Methods (3)	ETGR 2122, ETGR 3171	
ETME 3113 Dynamics (3)	MATH 1121, ETGR 2101, ETME 2102	
ETME 3143 Thermodynamics (3)	MATH 1121 or AAS	
ETME 3163 Instrumentation and Controls (3)	ETGR 2106	
Non-departmental (maximum of one)		
Course	Prerequisites	Offered
GEOG 3115 Urban Transportation Problems (3)		Alternate years
GEOG 3200 Land Use Planning (3)		Spring
GEOG 3210 Regional Planning (3)		Spring
GEOG 3215 Environmental Planning (3)		Fall
GEOG 4120 Introduction to Geographic Information Systems (4)	Consent of instructor	Yearly
GEOG 4040 Transportation Topics (3)	Consent of Geography Department	Spring
GEOG 4209 Small Town Planning (3)		Spring
GEOL 3190 Environmental Geology (3)	GEOL 1200 & 1200L	Spring
GEOL 4145 Fundamentals of Hydrogeology (4)	GEOL 1200, 1200L, CHEM 1251, 1251L, MATH 1241 (1121)	Fall
CHEM 1252 Principles of Chemistry II (3)	CHEM 1251	Fall, Spring, Summer
STAT 1220 Statistics I (3) <i>For AAS transfer students only</i>		Fall, Spring, Summer
MATH 2164 Matrices & Linear Algebra (3)	MATH 1121 with grade of C or better	Fall, Spring, Summer
MATH 2171 Differential Equations (3)	MATH 1242 (ETGR 3171) with grade of C or better	Fall, Spring, Summer
One major elective laboratory must be taken from the following:		
Course	Prerequisites	Offered
ETCE 3271L Building Systems Laboratory (1)	ETCE 3271 (pre or co)	Spring
ETCE 4126L Construction Practices Laboratory (1)	ETCE 4126 (pre or co)	Fall
ETCE 4143L Environmental Laboratory (1)	ETCE 4143 (pre or co)	On demand
ETCE 4251L Asphalt Mixtures Laboratory (1)	ETCE 4251 (pre or co)	On demand
ETME 3251 Instrumentation Laboratory (1)	ETME 3163 (pre or co)	
ETME 3252 Thermodynamics & Heat Transfer Laboratory (1)	ETME 3143 (pre or co)	
ETME 3152 Stress Analysis Laboratory (1)	ETME 3123 or ETGR 2102 (pre or co)	
GEOL 3190L Environmental Geology Laboratory (1)	GEOL 3190 (pre or co)	On demand

For any other class requested by a student as a major elective, the student must use the ET Department form for Major Electives Outside the College and must provide the following:

- a. Written justification for using the class as a major elective.
- b. Advisor approval.
- c. Approval by the ET Department Chair.