



Program Sheet for: **Civil Engineering Technology**

Effective Date: 2007 Fall Semester

Department of Engineering, Central Connecticut State University, New Britain, CT 06050

Tel: (860) 832-1815

Degree: Bachelor of Science - Major: Civil Engineering Technology

web: www.technology.ccsu.edu/programs/

General Education

STUDY AREAS:

I. Arts and Humanities (9 credits)		Crs
English Literature		3
English Literature or PHIL or Fine Arts		3
PHIL or Fine Arts		3

II. Social Sciences (6 credits)		Crs
History		3
ECON or GEOG or HIST or PS or ET 399		3

III. Behavioral Sciences (3 credits)		Crs
Anthropology or Psychology or Sociology		3

IV. Natural Sciences (8 credits)		Crs
PHYS 125**-Univ. Physics I or PHYS 121-Gen Physics I		4
PHYS 126**-Univ. Physics II or PHYS 122-Gen Phys. II		4

** Recommended

SKILL AREAS:

I. Communication Skills (6 credits)		Crs
ENG 110 - Freshman Composition*		3
COMM140 - Public Speaking		3

II. Mathematics (6 or 8 credits)		Crs
MATH 152**-Calculus I or MATH 135-Appl. Engr. Calc. I		4 - 3
MATH 221**-Calculus II or MATH 136-Appl. E. Calc. II		4 - 3

** Recommended

III.a Foreign Language (0-6 credits)		Crs
Required for students who have not completed 3 years in one language at HS level, or passed an exam with demonstrated foreign language equivalent, or demonstrated native proficiency.		0 - 3
		0 - 3

III.b International (6 credits)		Crs

IV. University Requirements (2-3 credits)		Crs
PE 144-Fitness/Wellness (or ENGR 150 Transfer Stud.)		2 - 3

Major Specialization Requirements

Crs	F	S	Major Specialization Requirements		Crs	F	S
			Crs	Sem.			
ENGR 150	Introduction to Engineering	3	X	X			
ET 251	Applied Engr. Mechanics I (Statics)	3	X	X			
ET 252	Applied Engr. Mechanics II (Dynamics)	3	X	X			
ET 354	Applied Fluid Mechanics	3	X	X			
ET 357	Strength of Materials	3	X	X			
ET 361	Engineering Technology Instrumentation	3	X				
ET 399	Engineering Economy	3	X	X			
ETC 122	Intro. to CAD for AEC I	3	X	X			
ETC 353	Intro. to Engr. Surveying	3	X				
ETC 397	Structural Analysis	3		X			
ETC 451	Soil Mechanics & Foundations	3	X				
ETC 454	Intro. To Transportation Engineering	3	X				
ETC 457	Adv. Surveying or ETC 458-GPS Mapping	3		X			
ETC 470	Structural Steel Design	3	X				
ETC 471	Reinforced Concrete Structures	3		X			
ETC 475	Hydrology and Storm Drainage	3		X			
ETC 498	Engr. Technology Sr. Project (Capstone)	3		X			
	Directed Tech. Electives (to complete 130)	3-9					

Additional Requirements

CET 236	Circuit Analysis	3	X	X
CHEM 161	General Chemistry I	3	X	X
CHEM 161	General Chemistry I Laboratory	1	X	X
CM 356	Materials of Construction	4	X	
ET 240	Spreadsheet & Prob. Solv. or CS 213	3	X	X
ETM 358	Applied Thermodynamics	3		X
MATH 119	Pre-Calc.w/Trig. or MATH 121***Pre-Calc	4-3	X	X
STAT 104	Elementary Statistics	3	X	X
ENG 403	Technical Writing	3	X	X
	Elective (Unrestricted)	3		
Total Credits				130 min.

Recommended Directed Technical Electives:

ETC 472, ETC 476, ET 495, ENGR 490,

MATH 226, CM 455, & GEOG 378

* Placement examination may be required before enrolling in English and Mathematics, ** The "recommended" course.

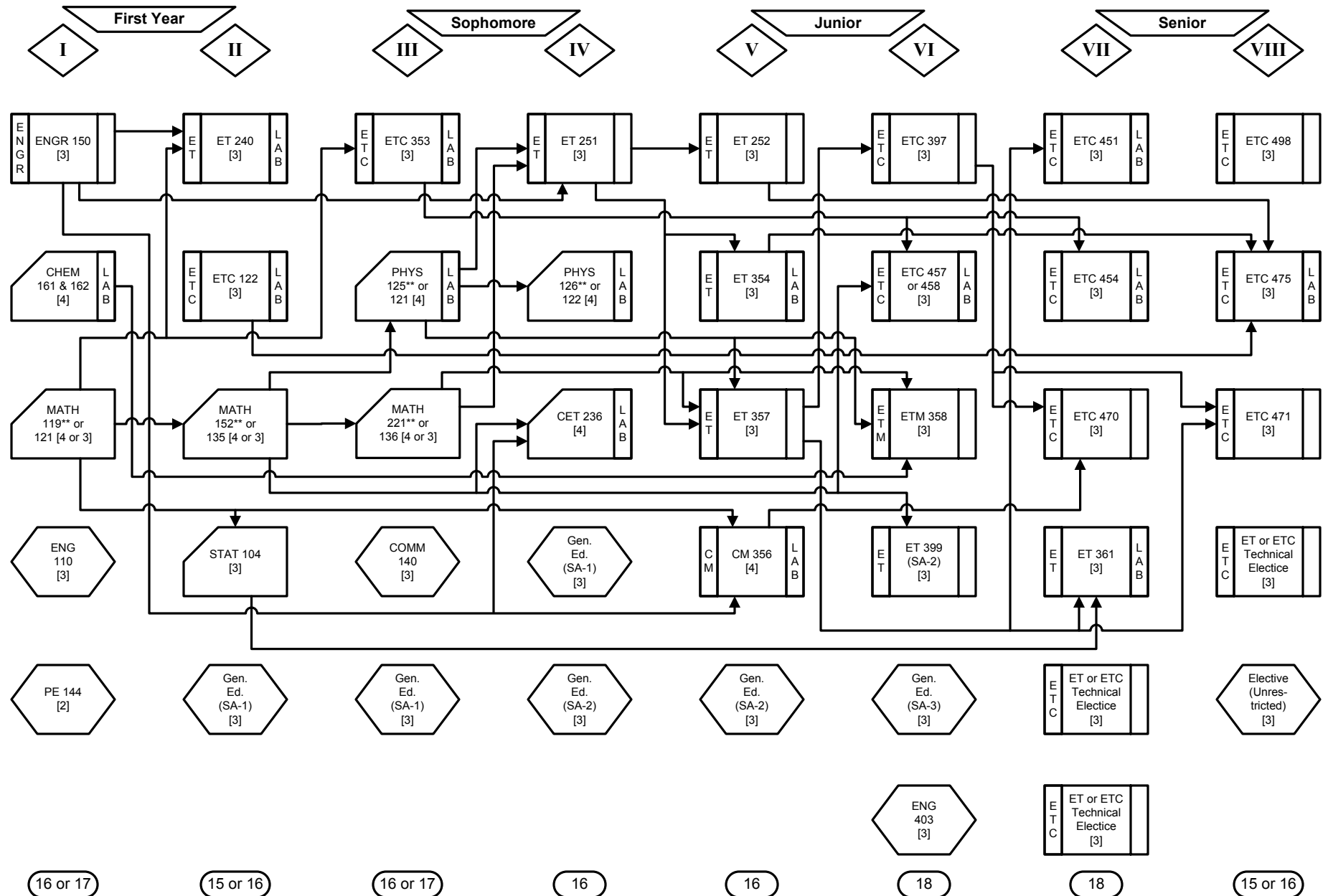
*** Students who take MATH 121 must complete MATH 115 - Trigonometry or the equivalent before enrolling in ETC 353.

**** Courses with designator [I] in course description can fulfill the General Education requirement and International component.

A minimum grade of C- is required in all courses in the major, all additional course requirements and courses in Study Area IV, Skill Area I and Skill Area II.

CCSU, Dept. of Engineering – Civil Engineering Technology – Program Flowchart

Effective date: 2007 Fall Semester





Typical Course Schedule for Civil Engineering Technology CCSU, Department of Engineering
 (For students without transfer credits who are qualified to take MATH 119 in the first semester.)

First Year					
Fall			Spring		
ENGR 150	Introduction to Engineering	3	MATH 152** or 135	Calculus I or Appl. Engr. Calc. I	4 or 3
CHEM 161	General Chemistry I	3	STAT 104	Elementary Statistics	3
CHEM 162	General Chemistry I Laboratory	1	ET 240	Spreadsheet & Engr. Solv. Tools	3
MATH 119** or 121	Pre-Calc. w/Trig. or Pre-Calc.***	4 or 3	ETC 122	Intro. to CAD for AEC	3
ENG 110	Freshman Composition	3		General Education (1)	3
PE 144	Fitness and Wellness	2			
Semester Total Hours = 16 or 17			Semester Total Hours = 15 or 16		

Second Year					
Fall			Spring		
MATH 221** or 136	Calculus II or Appl. Engr. Calc. II	4 or 3	PHYS 126** or 122	Univ. Physics II or Gen. Phys. II	4
PHYS 125** or 121	Univ. Physics I or Gen. Phys. I	4	ET 251	Engr. Mechanics I - Statics	3
COMM 140	Public Speaking	3	CET 236	Circuit Analysis	3
ETC 353*	Intro. to Engineering Surveying	3		General Education (3)	3
	General Education (2)	3		General Education (4)	3
Semester Total Hours = 16 or 17			Semester Total Hours = 16		

Third Year					
Fall			Spring		
ET 252	Engr. Mechanics II - Dynamics	3	ETC 397*	Structural Analysis	3
ET 354	Applied Fluid Mechanics	3	ETC 457* or 458*	Adv. Surveying or GPS Mapping	3
ET 357	Strength of Materials	3	ET 399	Engineering Economy	3
CM 356*	Materials of Construction	4	ETM 358*	Applied Thermodynamics	3
	General Education (5)	3	ENG 403	Technical Writing	3
				General Education (6)	3
Semester Total Hours = 16			Semester Total Hours = 18		

Fourth Year					
Fall			Spring		
ETC 451*	Soil Mechanics & Foundations	3	ETC 471*	Reinforced Concrete Structures	3
ETC 454*	Intro. To Transportation Engr.	3	ETC 475*	Hydrology and Storm Drainage	3
ETC 470*	Structural Steel Design	3	ETC 498*	Engr. Tech. Sr. Project (Capstone)	3
ET 361*	Engineering Tech. Instr.	3		Technical Elective (3)	3
	Technical Elective (1)	3		Elective (Unrestricted)	4 or 3
	Technical Elective (2)	3		Semester Total Hours = 15 or 16	
Semester Total Hours = 18			Program Hours = 130 minimum		

Recommended Directed Technical Electives: ETC 472 - Timber Structures, ETC 476 - Environmental Technology, ET 495 - Topics in Engr. Tech, ENGR 490 - Fundamentals of Engr. (FE), MATH 226 - Linear Algebra & Prob. for Engrs., CM 455 - Construction Project Management, and GEOG 378 - Geographic Information Systems.

* Indicates a course only offered in the semester indicated (Spring or Fall).

** The "recommended" course when 2 course numbers are indicated.

*** Students who take MATH 121 must complete MATH 115 - Trigonometry or the equiv. before enrolling in ETC 353.

Note: Students not meeting the Foreign Language Proficiency requirement need 6 added credits of foreign language.