

Central Connecticut State University
School of Engineering, Science, and Technology

Degree: Bachelor of Science
Program: Civil Engineering
Effective Term: Fall 2026

Web: www.ccsu.edu/engineering/
Email: DeptofEngineering@ccsu.edu
Program Coordinator: Bin (Brenda) Zhou, Ph.D., P.E.

General Education: Ways of Understanding:

Arts & Humanities (9 credits)

	Credits
Literature (200 level or higher)	3
	3
	3

Social & Behavioral Sciences (9 credits)

History	3
ECON Elective or ET 399	-
	3

Math & Natural Sciences (9-10 credits)

MATH 152	-
PHYS 125	-
PHYS 126	-

General Education: Essential Skills:

Written & Oral Communication (6 credits)

WRT 110	-
ENGR 290	-

World Language (3 credits) ¹

World Language course numbered 112 or 118	0-3
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Thriving in College (2-3 credits) ²

ENGR 150, CCSU 102, CCSU 103, or FYE course	-
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Coursework for Major or Additional Requirements in grey may be applied toward General Education requirements.

International & Equity, Justice, & Inclusion (EJI) Requirements:

International	0-3
International	0-3
Equity, Justice, & Inclusion ³	0-3

Coursework applied toward International & EJI requirements may be used in any other area of general education or program requirements.

Honors Program: HON courses can be used to fulfill certain general education requirements. Consult the Honors Program curriculum for details.

Residency Requirements: A minimum of 30 credits overall must be completed in residence, with at least 15 credits in the major (at least 12 of which must be at the 300 level or above) and 9 credits in a minor at Central. In residence means attending classes conducted on campus or under supervision of Central.

Civil Engineering Major Requirements (71 credits)

Minimum grade of C- required in all courses in Major Requirements.

	Credits	Semester	
		F	S
ENGR 150 Introduction to Engineering	3	X	X
ENGR 240 Computational Methods for Engineering	3	X	X
ENGR 251 Engineering Mechanics I - Statics	3	X	X
ENGR 252 Engineering Mechanics II - Dynamics	3	X	X
ENGR 357 Mechanics of Materials	3	X	X
CE 222 CAD Applications in CE	3	X	X
CE 253 Introduction to Engineering Surveying	3	X	X
CE 340 Environmental Engineering	3	X	
CE 352 Soil Mechanics	3	X	X
CE 356 Civil Engineering Materials	3	X	X
CE 360 Traffic Engineering	3	X	
CE 380 Fluid Mechanics	3	X	X
CE 397 Structural Analysis I	3	X	X
CE 407 Structural Analysis II	3		X
CE 440 Environmental Engineering Design	3		X
CE 452 Foundation Engineering	3	X	
CE 460 Highway Design and Construction	3		X
CE 470 Structural Steel Design	3		X
CE 471 Reinforced Concrete Design	3	X	
CE 480 Water Resources Engineering	3	X	
CE 497 CE Prof. Practice & Sr. Project Research	2	X	
CE 498 CE Senior Design Project (Capstone)	3		X
6 credits in CE 357 or 402 or 458 or 472 or 473 or 474 or 477 or 490 or 491 or 495, or SE 301	6	X	X

Civil Engineering Additional Requirements (41 credits)

Minimum grade of C- required in all courses in Additional Requirements.

CHEM 161 and 162 General Chemistry and Lab	4	X	X
MATH 152 Calculus I	4	X	X
MATH 221 Calculus II	4	X	X
MATH 226 Linear Algebra & Probabilities for Engineers	4	X	X
MATH 355 Intro. to Differential Equations with Apps	4	X	X
PHYS 125 University Physics I	4	X	X
PHYS 126 University Physics II	4	X	X
WRT 110 Intro. to College Writing	3	X	X
ENGR 290 Engineering Tech Writing and Presentation	3	X	X
BIO 121 or BMS 102 & 103 or ESCI 121 & 125	4	X	X
Econ Elective or ET 399	3	X	X

Is a Minor Required with this Major?

☐ Yes ☒ No

Total Credits Required for Degree: 127

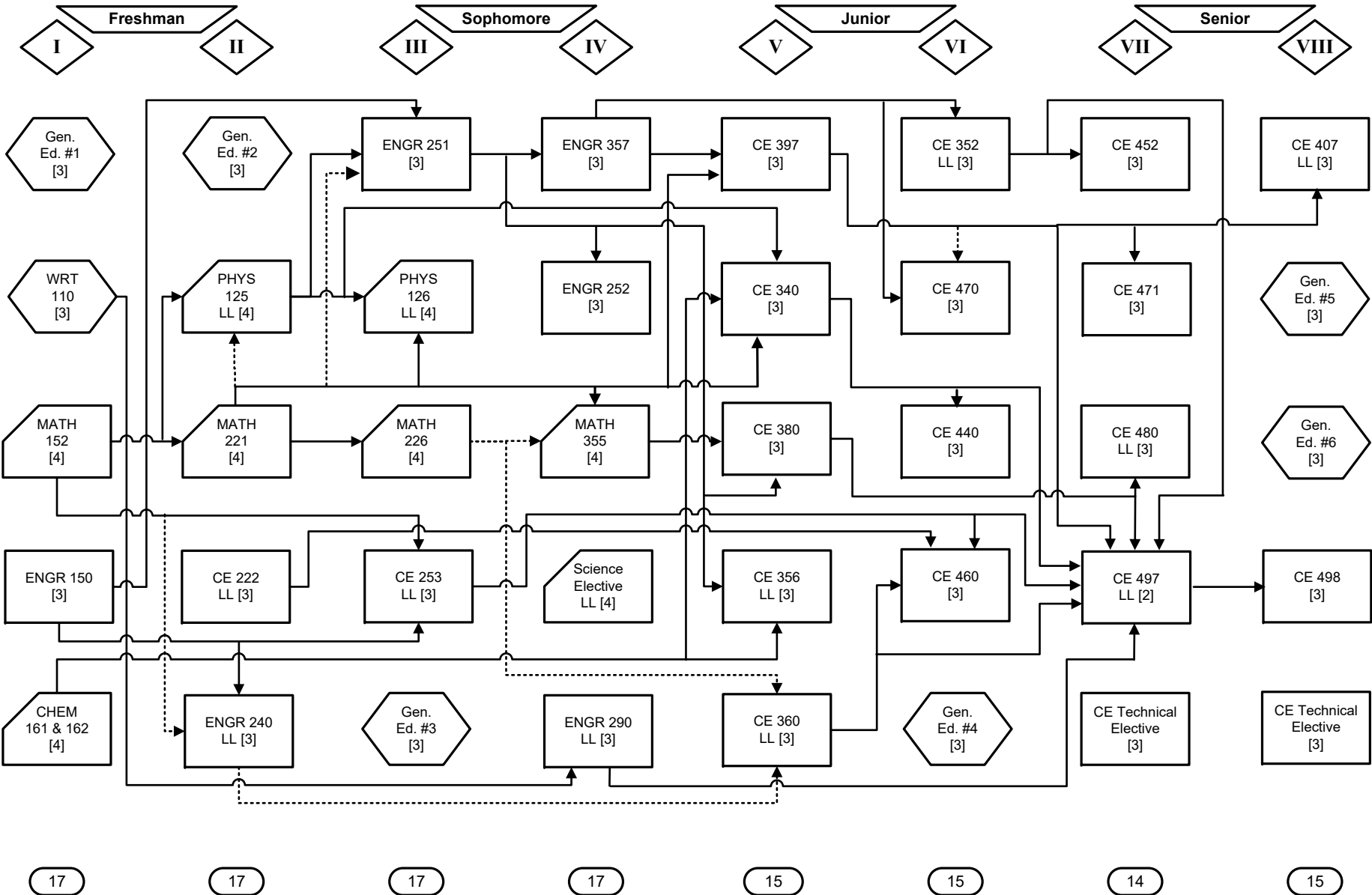
¹ Students with 3 years, or more, of one world language at the high school level, a passing score on a world language placement exam, or native proficiency in a language other than English will have the World Language requirement waived and can satisfy this requirement with any general education free elective course (3cr).

² Transfer students with 24 or more transfer credits at the time of admission can satisfy this requirement with any general education free elective (3cr).

³ Waived for transfer students with 50 or more transfer credits at the time of admission. CE 460 is an EJI-designated course.

CCSU – Dept. of Engineering – Civil Engineering Program Flowchart

Effective: Fall 2026



-----> May be taken concurrently
————> C- or higher