

Name:

Date:

Central Connecticut State University School of Engineering, Science & Technology

B.S.Ed. in Technology & Engineering Education (K-12)

120 credits minimum†‡

effective Fall 2024

BASIC SKILLS TESTING requirement (check one) ✓

- SAT or ACT scores that include a writing score
- SAT or ACT scores PLUS a Praxis Core writing score
- OTHER: see ccsu.edu/seps/teacherPrep

General Education (44 credits minimum†‡)
Study Area I: Arts & Humanities prerequisites ⓘ cr. note

Literature Elective: 200-level or above	WRT 110	<input type="checkbox"/>	3	
<i>study area I elective #1</i>		<input type="checkbox"/>	3	
<i>study area I elective #2</i>		<input type="checkbox"/>	3	

Study Area II: Social Sciences

U.S. History requirement: HIST 161 OR HIST 162			3	
TE 101 STEM and Society		<input checked="" type="checkbox"/>	3	
<i>study area II elective</i>		<input type="checkbox"/>	3	

Study Area III: Behavioral Sciences

PSY 136 Life Span Development			3	
EDF 215 Education in a Multicultural Society		**	3	

Study Area IV: Natural Sciences

PHYS 111 Introductory Physics I (OR PHYS 121 OR 125)			3	
<i>study area IV elective</i>		<input type="checkbox"/>	3	

Skill Area I: Communication Skills

WRT 110 Introduction to College Writing		P‡	3	
<i>skill area I elective</i>		<input type="checkbox"/>	3	

Skill Area II: Mathematics

STAT 104 Elementary Statistics (OR STAT 215)		P‡	3	
MATH 115 Trig (OR MATH 119, 124, 125, 135, OR 141)		P‡	3	

Skill Area III: Foreign Language requirement (check one)

- three sequential years of one foreign language in high school
- completion of a 112- or 114-level foreign language course
- other—see catalog

Skill Area IV: University Requirement

PE 144 (for students who enter with less than 15 cr.)			2	
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International requirement: Two international courses

↓ (NOTE: these courses should be double-counted as general education courses.)

TE 101 STEM and Society		<input type="checkbox"/>		
		<input type="checkbox"/>		

Program checkpoints ✓

- professional acceptance (Sept. 10 / Feb. 10)
- PRAXIS II / Technology Education passed
- student-teaching application (Sept. 15 / Feb. 15)

Technology & Engineering (76 credits)
Technology & Engineering Courses (47 cred) prerequisites cr. note

TE 115 Laboratory Safety and Management	F		3	
TE 150 Fundamentals of Engineering and Technol	S	MATH 115	3	
TE 201 Children's Creativity & Engineering	F	TE 101	3	
TE 215 Materials Processing	S	TE 115	3	
TE 217 STEM Laboratory Practices	S	TE 115	4	
TE 218 Electrical Applications for STEM	F		3	
TE 221 Innovation and Invention for Makerspac	F		4	
TE 245 Building Design and Construction	S		4	
TE 310 Communication Systems	S		3	
TE 330 Transportation Design	S	TE 215, 221	4	
TE 340 Coding and Computational Thinking	F	TE 299	3	
TE 399 Teaching Technology and Engineering	F	TE 299	3	
TE 417 Robot Design and Construction	F	TE 215, 221	4	
TE 498 Senior Design Project	S	TE 115, 400*	3	

Professional Education Requirements (29 credits)
Pre-professional block

(NOTE: EDTE 314 and TE 299 must be taken together)

TE 299 Technology & Engineering Practicum		TE 201	3	
EDTE 314 Applying Learning Theories in Diverse Settings (K-12)			3	

Professional courses

(NOTE: each of these courses requires professional acceptance)

SPED 315 Intro to Educating Learners with Exceptionalities			3	
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(NOTE: LLA 440, EDSC 425 and TE 400 must be taken together)

LLA 440 Literacy in the Secondary School			3	
TE 400 Professional Practices and Responsibilities	S	*TE 399	3	
EDSC 425 Principles and Evaluation (K-12)			3	

Student-teaching semester

(NOTE: you may not take other courses during this semester)

EDSC 431 Student Teaching I — Technology and Engineering			5	
EDSC 432 Student Teaching II — Technology and Engineering			5	
TE 419 Student-Teaching Seminar			1	

- P** Enrollment requires a placement exam **F** Fall-only course
- *** Prerequisite course **may be** taken concurrently **S** Spring-only course
- **** Course satisfies Equity, Justice, and Inclusion requirement

† Students who have not met the Foreign Language Requirement prior to enrollment will be required to take six additional credits of foreign language.

‡ Students' placement-test scores may require them to take between three and nine additional credits in remedial English or mathematics courses.

 ⓘ Students must select **at least two courses designated "international"** from among their General Education electives TE 101 is an international course, so you need at least one more. Failure to do this will require three additional credits.

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updated Fall 2018

suggested 4-YEAR PLAN

see your advisor to plan your courses

First Year (10 courses, 30 credits)			
FALL		SPRING	
		<ul style="list-style-type: none"> • discuss BASIC SKILLS requirement with your advisor • begin foreign language if needed (+3 cr.) 	
WRT	110 3	HIST 161 or 162	3
MATH	115 3	PE	144 2
TE	101 3	TE	150 S 3
TE	115 F 3	TE	215 S 3
PSY	136 3	TE	217 S 4
<hr/>		<hr/>	
15		15	

Second Year (10 courses, 32 credits)			
FALL		SPRING	
<ul style="list-style-type: none"> • complete BASIC SKILLS requirement 		<ul style="list-style-type: none"> • apply for professional acceptance 	
EDF	215 3	EDTE	314 3
PHYS	111 3	TE	299 S 3
STAT	104 3	TE	310 S 3
TE	201 F 3	TE	245 S 4
TE	221 F 4	literature elective (SA1)	3
<hr/>		<hr/>	
16		16	

Third Year (10 courses, 31 credits)			
FALL		SPRING	
<ul style="list-style-type: none"> • complete foreign language if needed (+3 cr.) 		<ul style="list-style-type: none"> • take PRAXIS II • apply for graduation 	
TE	218 F 3	EDSC	425 3
TE	399 F 3	TE	400 S 3
SPED	315 3	LLA	440 3
		TE	330 S 4
elective (SK1)	3	TE	498 S 3
elective (SA1)	3	<hr/>	
15		16	

Fourth Year (8 courses, 27 credits)			
FALL		SPRING	
<ul style="list-style-type: none"> • apply for student teaching 		Student Teaching Block	
elective (SA1)	3	EDSC	431 5
TE	340 F 3	EDSC	432 5
TE	417 F 4	TE	419 1
elective (SA2)	3	<hr/>	
elective (SA4)	3	11	
<hr/>		<hr/>	
16		11	

Total credits 120

suggested 3 1/2-YEAR PLAN

see your advisor to plan your courses

First Year (11 courses, 34 credits)				
FALL		SPRING		SUMMER
		<ul style="list-style-type: none"> • discuss BASIC SKILLS requirement with your advisor 		
WRT	110 3	HIST 161 or 162	3	students required to take additional coursework in foreign language will need 3 or 6 additional summer or winter credits (see curriculum sheet)
MATH	115 3	STAT	104 3	
TE	101 3	TE	215 S 3	
TE	115 F 3	TE	217 S 4	
PSY	136 3	TE	245 S 4	
PE	144 2	<hr/>		
17		17		

Second Year (13 courses, 41 credits)				
FALL		SPRING		SUMMER
<ul style="list-style-type: none"> • complete BASIC SKILLS requirement 		<ul style="list-style-type: none"> • apply for professional acceptance 		
EDF	215 3	EDTE	314 3	elective (SA2) 3
PHYS	111 3	TE	150 S 3	elective (SA4) 3
TE	201 F 3	TE	299 S 3	
TE	221 F 4	TE	310 S 3	
TE	417 F 4	literature elective (SA1)	3	
<hr/>		<hr/>		<hr/>
17		18		6

Third Year (11 courses, 34 credits)				
FALL		SPRING		SUMMER
<ul style="list-style-type: none"> • take PRAXIS II • apply for graduation 		<ul style="list-style-type: none"> • apply for student teaching 		
SPED	315 3	EDSC	425 3	
TE	350 F 3	LLA	440 3	
TE	399 F 3	TE	330 S 4	
TE	218 F 3	TE	498 S 3	
elective (SK1)	3	TE	400 S 3	
elective (SA1)	3	<hr/>		
18		16		0

Fourth Year (3 courses, 11 credits)			
FALL		SPRING	
Student Teaching Block		Student Teaching Block	
EDSC	431 5	EDSC	432 5
EDSC	432 5	TE	419 1
TE	419 1	<hr/>	
11		11	

F Fall-only course
S Spring-only course

Total credits 120

FOUR-YEAR ACADEMIC MAP

Effective Term: Fall 2024

Revised 2/21/24

Semester	cr.	min. gr.	CHECKPOINT	MILESTONE	NOTES
Semester 1					
MATH 115 Trigonometry [requires placement exam]	3	C-	<ul style="list-style-type: none"> maintain a 3.0 GPA in TE courses maintain an overall GPA of 2.7 (3.0 preferred) take 111-level foreign language if needed (+3 cr.) discuss BASIC SKILLS TESTING requirement with your advisor 		
TE 101 Introduction to STEM Systems	3	C-			
TE 115 Laboratory Safety and Management [Fall only]	3	C-			
PSY 136 Life Span Development	3	C			
WRT 110 Intro College Writing [requires placement exam]	3	C			
TOTAL	15				
Semester 2					
STAT 104 Elementary Statistics [requires placement exam]	3	C-	<ul style="list-style-type: none"> maintain a 3.0 GPA in TE courses maintain an overall GPA of 2.7 (3.0 preferred) take 112-level foreign language if needed (+3 cr.) 		
TE 215 Materials Processing [Spring only]	3	C-			
TE 217 STEM Laboratory Practices [Spring only]	4	C-			
U.S. History: HIST 161 or HIST 162	3	C			
PE 144 Health & Wellness	2	C			
TOTAL	15				
Semester 3					
EDF 215 Education in a Multicultural Society	3	C	<ul style="list-style-type: none"> maintain a 3.0 GPA in TE courses maintain an overall GPA of 2.7 (3.0 preferred) complete BASIC SKILLS TESTING requirement 		<ul style="list-style-type: none"> failure to have met the BASIC SKILLS TESTING requirement by the end of this semester may delay your graduation.
PHYS 111 Introductory Physics (OR PHYS 121 OR 125)	3	C-			
TE 150 Fundamentals of Engineering & Technology... [Fall]	3	C			
TE 201 Children's Creativity & Engineering [Fall only]	3	C			
TE 221 Innovation and Invention for Makerspaces [Fall only]	4	C			
TOTAL	16				
Semester 4					
EDTE 314 Principles of Learning	3	C	<ul style="list-style-type: none"> maintain a 3.0 GPA in TE courses maintain an overall GPA of 2.7 (3.0 preferred) TE 299 and EDTE 314 must be taken concurrently 	<ul style="list-style-type: none"> apply for professional acceptance [due Sep.10 / Feb.10] 	<ul style="list-style-type: none"> failure to receive professional acceptance this semester (application due Sep.10 / Feb.10) may delay your graduation.
Literature Elective: 200 level+	3	C-			
TE 299 Practicum	3	C			
TE 310 Communication Systems [Spring only]	3	C			
TE 245 Building Design & Construction [Spring only]	4	C			
TOTAL	16				
Semester 5					
TE 340 Coding and Computational Thinking [Fall only]	3	C-	<ul style="list-style-type: none"> maintain a 3.0 GPA in TE courses maintain an overall GPA of 2.7 (3.0 preferred) you should have completed at least 3 credits of international courses by the end of this 		<ul style="list-style-type: none"> failure to receive professional acceptance this semester (application due Sep.10 / Feb.10) will delay your graduation.
SPED 315 Intro to Educating Learners with Exceptionalities	3	C			
study area IV elective	3	C-			
TE 399 Teaching Tech & Engineering [Fall only]	3	C			
TE 218 STEM Electrical Applications [Fall only]	3	C			
TOTAL	15				
Semester 6					
EDSC 425 Principles and Evaluation K-12	3	C	<ul style="list-style-type: none"> maintain a 3.0 GPA in TE courses maintain an overall GPA of 2.7 (3.0 preferred) take the PRAXIS II exam by the end of this semester TE 400 and EDSC 425 must be taken concurrently 	<ul style="list-style-type: none"> take PRAXIS II exam apply for graduation [due one year prior to graduation] 	
LLA 440 Literacy Instruction in Secondary Schools	3	C-			
TE 330 Transportation Design [Spring only]	4	C			
TE 400 Professional Practices... [Spring only]	3	C			
TE 498 Senior Design Project [Spring only]	3	C			
TOTAL	16				
Semester 7					
study area I elective	3	C	<ul style="list-style-type: none"> maintain a 3.0 GPA in TE courses maintain an overall GPA of 2.7 (3.0 preferred) you should have completed 6 credits of international courses by the end of this semester. 	<ul style="list-style-type: none"> apply for student teaching [due Sep.15 / Feb.15] 	
study area I elective	3	C			
study area II elective	3	C-			
skill area I elective	3	C-			
TE 417 Robot Design, Constr & Comp [Fall only]	4	C-			
TOTAL	16				
Semester 8					
EDSC 431 Student Teaching I	5	C			<ul style="list-style-type: none"> you may not enroll in additional coursework during your student-teaching semester.
EDSC 432 Student Teaching II	5	C			
TE 419 Student Teaching Seminar	1	C			
TOTAL	11				

Total credits 120

TECHNOLOGY & ENGINEERING EDUCATION (K-12)

