

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 2019 updated Fall 2020

**BASIC SKILLS TESTING requirement (check one) ✓**

SAT or ACT scores that include a writing score	<input type="checkbox"/>
SAT or ACT scores PLUS a Praxis Core writing score	<input type="checkbox"/>
<u>OTHER: see <a href="http://ccsu.edu/seps/teacherPrep">ccsu.edu/seps/teacherPrep</a></u>	<input type="checkbox"/>

**Program checkpoints ✓**

professional acceptance (Sept. 10 / Feb. 10)	<input type="checkbox"/>
passed PRAXIS II / Technology Education	<input type="checkbox"/>
passed edTPA	<input type="checkbox"/>

**General Education (44 credits minimum†‡)****Study Area I: Arts & Humanities** prerequisites cr. ✓ ①

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

**Study Area II: Social Sciences**

U.S. History requirement: HIST 161 OR HIST 162		3	<input type="checkbox"/>
TE101 Introduction to STEM Systems		3	<input type="checkbox"/>
<i>study area II elective</i>		3	<input type="checkbox"/>

**Study Area III: Behavioral Sciences**

PSY 136 Life Span Development		3	<input type="checkbox"/>
EDF 215 Education in a Multicultural Society		3	<input type="checkbox"/>

**Study Area IV: Natural Sciences**

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

**Skill Area I: Communication Skills**

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

**Skill Area II: Mathematics**

STAT 104 Elementary Statistics	P†	3	<input type="checkbox"/>
MATH 115 Trigonometry (OR MATH 119 OR 152)	P†	3	<input type="checkbox"/>

**Skill Area III: Foreign Language requirement† (check one)**

three sequential years of one foreign language in high school	<input type="checkbox"/>
completion of a 112- or 114-level foreign language course	<input type="checkbox"/>
other (see catalog)	<input type="checkbox"/>

**Skill Area IV: University Requirement**

PE 144 (for students who enter with less than 15 cr.)	2	<input type="checkbox"/>
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**International requirement: Students must select two courses**

① designated "international" from among their General Education electives. Failure to do this will require 3 - 6 additional credits.

<input type="checkbox"/>
<input type="checkbox"/>

**Technology & Engineering Education (76 credits)****Major Courses (47 credits)** prerequisites cr. ✓

TE 115 Laboratory Safety and Management	F		3	<input type="checkbox"/>
TE 150 Fundamentals of Engineering and Techn	S	MATH 115	3	<input type="checkbox"/>
TE 201 Children's Creativity & Engineering	F	TE 101	3	<input type="checkbox"/>
TE 215 Materials Processing	S	TE 115	3	<input type="checkbox"/>
TE 217 STEM Laboratory Practices	S	TE 115	4	<input type="checkbox"/>
TE 218 Electrical Applications for STEM	F		3	<input type="checkbox"/>
TE 221 Innovation and Invention	F		4	<input type="checkbox"/>
TE 245 Building Design and Construction	S		4	<input type="checkbox"/>
TE 310 Communication Systems	S		3	<input type="checkbox"/>
TE 330 Transportation Design	S	TE 215, 221	4	<input type="checkbox"/>
TE 350 Current Topics in STEM Education	F	TE 299	3	<input type="checkbox"/>
TE 399 Teaching Technology and Engineering	F	TE 299	3	<input type="checkbox"/>
TE 417 Robot Design and Construction	F	TE 215, 221	4	<input type="checkbox"/>
TE 498 Senior Design Project	S	TE 115, 400*	3	<input type="checkbox"/>

**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	<input type="checkbox"/>
EDTE 314 Applying Learning Theories in Diverse Settings (K-			3	<input type="checkbox"/>

**Professional courses**

(NOTE: each of these courses requires professional acceptance)

SPED 315 Intro to Educating Learners with Exceptionalities		3	<input type="checkbox"/>
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(NOTE: EDSC 425 and TE 400 must be taken together.)

Taking LLA 440, EDSC 425 and TE 400 together is strongly recommended.)

LLA 440 Literacy in the Secondary School		3	<input type="checkbox"/>	
TE 400 Professional Practices and Responsibility	S	TE 399	3	<input type="checkbox"/>
EDSC 425 Principles and Evaluation (K-12)		3	<input type="checkbox"/>	

**Student-teaching semester**

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

EDSC 431 Student Teaching I — Technology and Engineering		5	<input type="checkbox"/>
EDSC 432 Student Teaching II — Technology and Engineering		5	<input type="checkbox"/>
TE 419 Student-Teaching Seminar		1	<input type="checkbox"/>

**P** Enrollment requires a placement exam      **F** Fall-only course  
**\*** Prerequisite course **may be** taken concurrently      **S** Spring-only course

† 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.

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Semester 1				15 credits	cr.	min. grade	CHECKPOINT	MILESTONE	WARNING
MATH 115 Trigonometry	<b>P</b> ‡		3	C-	<ul style="list-style-type: none"> <li>• take 111-level foreign language if needed‡ (+3 cr.)</li> <li>• discuss <b>BASIC SKILLS TESTING</b> requirement with your advisor</li> </ul>				
TE 101 Introduction to STEM Systems			3	C-					
TE 115 Laboratory Safety and Management	<b>F</b> ‡		3	C-					
PSY 136 Life Span Development			3	C					
WRT 110 Intro College Writing	<b>P</b> ‡		3	C					
Semester 2				15 credits		min. grade	CHECKPOINT	MILESTONE	WARNING
TE 150 Fundamentals of Engineering and Technology for Tea	<b>F</b>	MATH 115	3	C	<ul style="list-style-type: none"> <li>• maintain an overall GPA of 2.7 (3.0 preferred)</li> <li>• maintain a 3.0 GPA in TE courses</li> <li>• take 112-level foreign language if needed‡ (+3 cr.)</li> </ul>				
TE 215 Materials Processing	<b>S</b>	TE 115	3	C-					
TE 217 STEM Laboratory Practices	<b>S</b>	TE 115	4	C-					
U.S. History: HIST 161 or HIST 162			3	C					
PE 144 Health & Wellness			2	C					
Semester 3				16 credits		min. grade	CHECKPOINT	MILESTONE	WARNING
EDF 215 Education in a Multicultural Society			3	C	<ul style="list-style-type: none"> <li>• maintain an overall GPA of 2.7 (3.0 preferred)</li> <li>• maintain a 3.0 GPA in TE courses</li> <li>• complete <b>BASIC SKILLS TESTING</b> requirement</li> </ul>			<ul style="list-style-type: none"> <li>• failure to have met the <b>BASIC SKILLS TESTING</b> requirement by the end of this semester may delay your graduation.</li> </ul>	
PHYS 111 Introductory Physics (OR PHYS 121 OR 125)			3	C-					
STAT 104 Elementary Statistics	<b>P</b> ‡		3	C-					
TE 201 Children's Creativity & Engineering	<b>F</b>	TE 101	3	C					
TE 221 Innovation and Invention	<b>F</b>		4	C					
Semester 4				16 credits		min. grade	CHECKPOINT	MILESTONE	WARNING
Literature Elective: 200 level+		WRT 110	3	C	<ul style="list-style-type: none"> <li>• maintain an overall GPA of 2.7 (3.0 preferred)</li> <li>• maintain a 3.0 GPA in TE courses</li> </ul>	<ul style="list-style-type: none"> <li>• apply for <b>professional acceptance</b> [due Sep.10 / Feb.10]</li> </ul>	<ul style="list-style-type: none"> <li>• failure to receive professional acceptance this semester (application due Sep.10 / Feb.10) may delay your graduation.</li> </ul>		
EDTE 314 Applying Learning Theories in Diver			3	C-					
TE 299 Technology & Engineering Practicum			3	C					
TE 310 Communication Systems	<b>S</b>		3	C					
TE 245 Building Design & Construction	<b>S</b>		4	C					
Semester 5				15 credits		min. grade	CHECKPOINT	MILESTONE	WARNING
TE 350 Current Topics in STEM Education	<b>F</b>	TE 299	3	C-	<ul style="list-style-type: none"> <li>• maintain an overall GPA of 2.7 (3.0 preferred)</li> <li>• maintain a 3.0 GPA in TE courses</li> <li>• complete <b>at least</b> 3 international credits by the end of this semester.</li> </ul>			<ul style="list-style-type: none"> <li>• failure to receive professional acceptance this semester (application due Sep.10 / Feb.10) <b>will</b> delay your graduation.</li> </ul>	
SPED 315 Introduction to Educating Learners with Exceptionalities			3	C					
study area IV elective			3	C-					
TE 399 Teaching Technology & Engineering	<b>F</b>	TE 299	3	C					
TE 218 STEM Electrical Applications	<b>F</b>		3	C					
Semester 6				16 credits		min. grade	CHECKPOINT	MILESTONE	WARNING
LLA 440 Literacy Instruction in Secondary Schools			3	C	<ul style="list-style-type: none"> <li>• maintain an overall GPA of 2.7 (3.0 preferred)</li> <li>• maintain a 3.0 GPA in TE courses</li> <li>• take the PRAXIS II exam by the end of this semester</li> </ul>	<ul style="list-style-type: none"> <li>• take <b>PRAXIS II</b> exam</li> <li>• apply for <b>graduation</b> [due 1 yr. prior to graduation]</li> </ul>			
EDSC 425 Principles and Evaluation K-12			3	C-					
TE 400 Professional Practices and Responsibi	<b>S</b>	TE 399	3	C					
TE 330 Transportation Design	<b>S</b>	TE 215, 221	4	C					
TE 498 Senior Design Project		TE 115, 400*	3	C					
Semester 7				16 credits		min. grade	CHECKPOINT	MILESTONE	WARNING
study area I elective			3	C	<ul style="list-style-type: none"> <li>• maintain an overall GPA of 2.7 (3.0 preferred)</li> <li>• maintain a 3.0 GPA in TE courses</li> <li>• complete international requirement by the end of this semester.</li> </ul>	<ul style="list-style-type: none"> <li>• apply for <b>student teaching</b> [due Sep.15 / Feb.15]</li> </ul>			
study area I elective			3	C					
study area II elective			3	C-					
skill area I elective			3	C-					
TE 417 Robot Design, Construction & Competition	<b>F</b>	TE 215, 221	4	C-					
Semester 8				11 credits		min. grade	CHECKPOINT	MILESTONE	WARNING
EDSC 431 Student Teaching I			5	C				<ul style="list-style-type: none"> <li>• you may not enroll in additional coursework during your student-teaching semester.</li> </ul>	
EDSC 432 Student Teaching II			5	C					
TE 419 Student Teaching Seminar			1	C					

**P** Enrollment requires a placement exam    **F** Fall-only course  
**\*** Prerequisite course may be taken concurrently    **S** Spring-only course

‡ 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.

**suggested 4-YEAR PLAN**

see your advisor to plan your courses

**suggested 3½-YEAR PLAN**

see your advisor to plan your courses

**First Year (10 courses, 30 credits)**

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

**First Year (11 courses, 34 credits)**

FALL			SPRING			SUMMER		
			<ul style="list-style-type: none"> <li>• discuss <b>BASIC SKILLS</b> requirement with your advisor</li> </ul>					
	credits							
WRT	110	3	HIST 161/162		3			
PE	144	2	<b>TE</b>	<b>150</b>	<b>S</b> 3			
MATH	115	3	<b>TE</b>	<b>215</b>	<b>S</b> 3			
TE	101	3	<b>TE</b>	<b>217</b>	<b>S</b> 4			
<b>TE</b>	<b>115</b>	<b>F</b> 3	<b>TE</b>	<b>245</b>	<b>S</b> 4			
PSY	136	3						
17			17			0		

**Second Year (17 courses, 32 credits)**

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

**Second Year (12 courses, 35 credits)**

FALL			SPRING			SUMMER		
<ul style="list-style-type: none"> <li>• complete <b>BASIC SKILLS</b> requirement</li> </ul>			<ul style="list-style-type: none"> <li>• apply for professional acceptance</li> </ul>			students required to take additional coursework in foreign language will need 3 or 6 additional summer or winter credits (see curriculum sheet)		
PHYS	111	3	EDF	215	3			
STAT	104	<b>F</b> 3	EDTE	314	3			
<b>TE</b>	<b>201</b>	<b>F</b> 3	TE	299	3			
<b>TE</b>	<b>221</b>	<b>F</b> 4	<b>TE</b>	<b>310</b>	<b>S</b> 3			
<b>TE</b>	<b>417</b>	<b>F</b> 4	<i>science elective (SA4)</i>		3			
			<i>literature elective (SA1)</i>		3			
17			18			0		

**Third Year (18 courses, 31 credits)**

FALL			SPRING		
<ul style="list-style-type: none"> <li>• complete foreign language if needed (+3 cr.)</li> </ul>			<ul style="list-style-type: none"> <li>• take <b>PRAXIS II</b></li> <li>• apply for graduation</li> </ul>		
<b>TE</b>	<b>218</b>	<b>F</b> 3	EDSC	425	3
<b>TE</b>	<b>399</b>	<b>F</b> 3	<b>TE</b>	<b>400</b>	<b>S</b> 3
SPED	315	3	RDG	440	3
<i>elective (SA1)</i>		3	<b>TE</b>	<b>330</b>	<b>S</b> 4
<i>science elective (SA4)</i>		3	<b>TE</b>	<b>498</b>	<b>S</b> 3
15			16		

**Third Year (13 courses, 40 credits)**

FALL			SPRING			SUMMER		
<ul style="list-style-type: none"> <li>• take <b>PRAXIS II</b></li> <li>• apply for graduation</li> </ul>			<ul style="list-style-type: none"> <li>• apply for student teaching</li> </ul>					
SPED	315	3	EDSC	425	3	<i>elective (SA1)</i>		3
<b>TE</b>	<b>350</b>	<b>F</b> 3	RDG	440	3	<i>elective (SA2)</i>		3
<b>TE</b>	<b>399</b>	<b>F</b> 3	<b>TE</b>	<b>330</b>	<b>S</b> 4			
<b>TE</b>	<b>218</b>	<b>F</b> 3	<b>TE</b>	<b>498</b>	<b>S</b> 3			
<i>elective (SA1)</i>		3	<b>TE</b>	<b>400</b>	<b>S</b> 3			
<i>elective (SK1)</i>		3						
18			16			6		

**Fourth Year (7 courses, 27 credits)**

FALL			SPRING		
<ul style="list-style-type: none"> <li>• apply for student teaching</li> </ul>			<b>Student Teaching Block</b>		
<i>elective (SA1)</i>		3	EDSC	431	5
<b>TE</b>	<b>350</b>	<b>F</b> 3	EDSC	432	5
<b>TE</b>	<b>417</b>	<b>F</b> 4	TE	419	1
<i>elective (SA2)</i>		3			
<i>elective (SK1)</i>		3			
16			11		

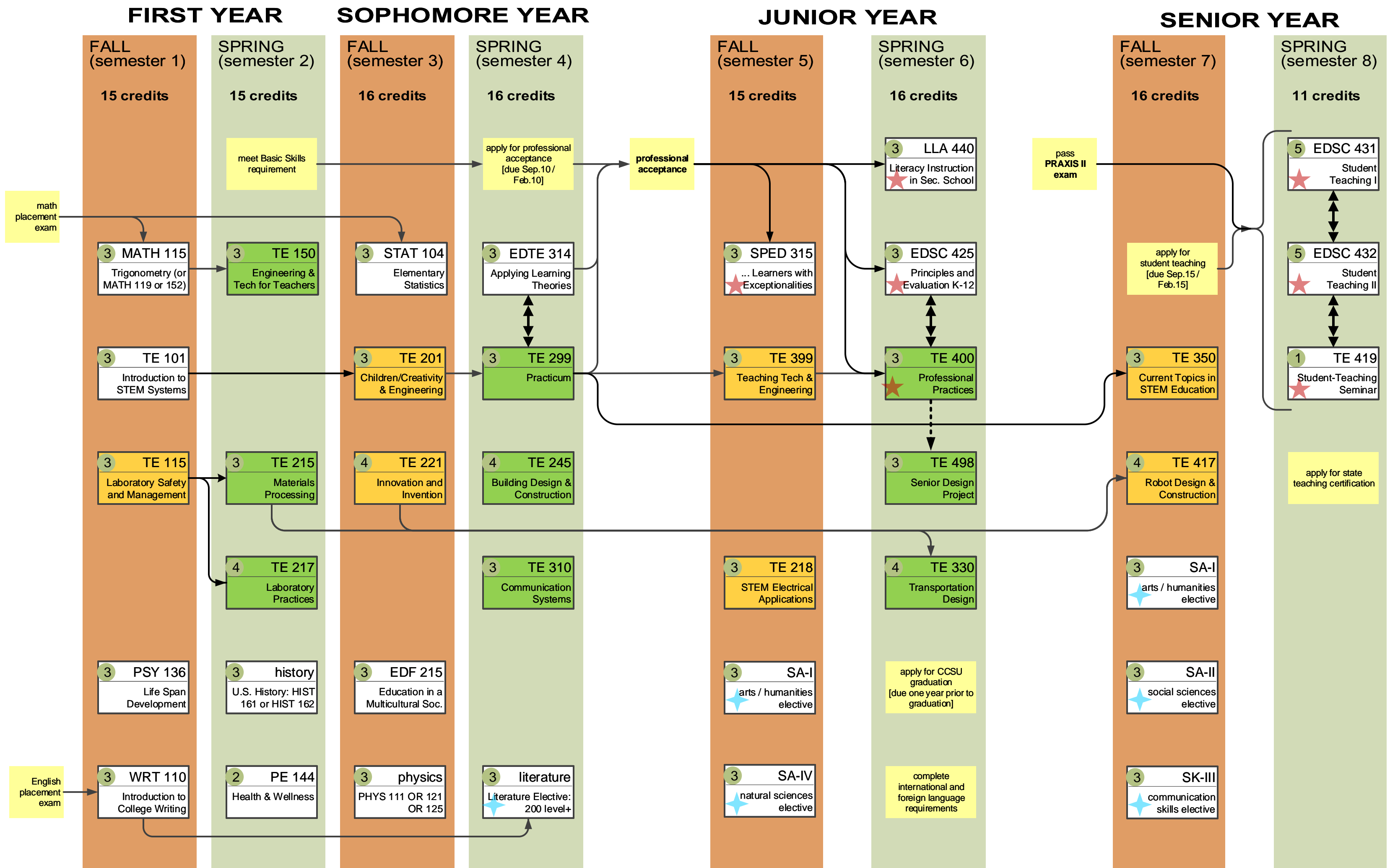
**Fourth Year (2 courses, 11 credits)**

FALL		
<b>Student Teaching Block</b>		
EDSC	431	5
EDSC	432	5
TE	419	1
11		

**F** Fall-only course  
**S** Spring-only course

**Total credits 120**

**Total credits 120**



**KEY**

- arrows indicate prerequisites
- ⋮ prerequisite; may be taken concurrently
- ↕ Co-requisites: must be taken together
- 4 TE 221 Course credit hours
- 3 TE 400 Fall-only course
- 3 EDTE 314 Spring-only course
- 3 EDTE 314 Fall and Spring
- ★ Course requires professional acceptance
- ★ Students must select at least two courses designated "international" from among these electives
- Non-course requirement