## BACHELOR OF SCIENCE, MAJOR IN ENGINEERING TECHNOLOGY WITH TEACHING CERTIFICATION

Code	Title	Hours	
Bachelor of Science, Major in Engir	neering Technology with Teaching Certification		
Core Curriculum (catalog.shsu.edu,	/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum)		
Component Area I (Communication		6	
Component Area II (Mathematics)		3	
Component Area III (Life and Physical Science)			
Component Area IV (Language, Philosophy, and Culture)			
Component Area V (Creative Arts)			
Component Area VI (U.S. History)			
Component Area VII (Political Science/Government)			
Component Area VIII (Social and Behavioral Sciences)			
Component Area IX (Component Area Option) 4			
Degree Specific Requirements			
MATH 3379	Statistical Mthods in Practice	3	
or ENGL 3330	Intro to Technical Writing		
MATH 1314	Pre Calculus Algebra <sup>1</sup>	3	
MATH 1316	Plane Trigonometry <sup>1</sup>	3	
PHYS 1301	General Phy-Mechanics & Heat	4	
& PHYS 1101	and General Physics Laboratory I		
PHYS 1302	Gen Phy-Snd,Lght, Elec, & Mag	4	
& PHYS 1102	and General Physics Laboratory II		
Major Core			
ETDD 1361	Engineering Graphics	3	
ETEC 1010	Engineering Foundations	1-2	
ETEE 1340	Introduction to Circuits	3	
ETCM 1363	Wood Frame Construction	3	
Major			
ETEE 2320	Circuits and Systems	3	
ETCM 2363	Architectural Design	3	
ETDD 3310	Product Design & Development	3	
ETEC 4340	Alternative Energy Technology	3	
INED 4310	Occup. Human Relations in CTE	3	
INED 4363	Preparation Of Instructnal Mtr	3	
INED 4364	Teaching in Schools & Industry	3	
INED 4391	Lab Mgt,Organization & Control	3	
Advanced Electives selected from: ETEC, ETEE, ETDD, ETCM, ETSM and INED			
Minor			
CISE 3384	The Teaching Profession	3	
CISE 4364	Mth Tch Secondary Schools	3	
CISE 4378	Content Literacy	3	
CISE 4379	Differentiated Pedagogy	3	
CISE 4380	Respon Of Pro Educator	3	
CISE 4394	Creatng Env For Lrng-Secondary	3	
CISE 4396	Std Tch Secondary Classroom	3	
CISE 4397	Std Tch Secondary Classroom	3	
Total Hours		126-127	

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MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement. MATH 1420 also satisfies 1 semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

For certification purposes the minor is considered to be Secondary Education. No other minor is required, but if an additional teaching field is desired, the student must meet the requirements of that teaching field. For the degree of Bachelor of Science and a teaching certificate with an integrated teaching field in technology, the student must complete a minimum of 48 semester hours in Engineering Technology and 21 semester hours in Secondary Education. The courses listed above are required of all students who are majoring in Engineering Technology and seeking a teaching certificate. The student should be advised by the Engineering Technology/Industrial Education teacher educator. Contact the advisor at (936) 294-1216, or seek advisement for Engineering Technology at the SAM Center.

294-1216, or seek advisement for Engineering Technology at the SAM Center.				
First Year				
Fall	Hours Spring	Hours		
Component Area I (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareai)	3 Component Area I (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareai)	3		
Component Area IX (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaix)	1 Component Area III (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaiii)	4		
ETDD 1361	3 Component Area IV (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaiv)	3		
ETCM 1363	3 ETEC 1010	1-2		
ETEE 1340	3 ETEE 2320	3		
MATH 1314 <sup>1</sup>	3 MATH 1316 <sup>1</sup>	3		
	16	17-18		
Second Year				
Fall	Hours Spring	Hours		
Component Area III (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaiii)	4 Component Area VI (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareavi)	3		
Component Area V (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareav) <sup>2</sup>	3 Component Area VII (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareavii)	3		
Component Area VI (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareavi)	3 Component Area VIII (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareaviii)	3		
ETDD 3310	3 ETCM 2363	3		
PHYS 1301 & PHYS 1101	4 ETEC Advanced Elective	3		
	17	15		
Third Year				
Fall	Hours Spring	Hours		
Component Area VII (catalog.shsu.edu/undergraduate/ academic-policies-procedures/degree-requirements- academic-guidelines/core-curriculum/#componentareavii)	3 CISE 4378	3		
CISE 3384	3 CISE 4380	3		
ETEC Program Advanced Electives	6 ETEC 4340	3		
PHYS 1302 & PHYS 1102	4 INED 4363	3		
	INED 4364	3		
	16	15		
Fourth Year				
Fall	Hours Spring	Hours		
CISE 4364	3 Component Area IX (catalog.shsu.edu/undergraduate/	3		

academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)

CISE 4379	3 CISE 4394	3
ETEC Program Advanced Electives	3 CISE 4396	3
INED 4310	3 CISE 4397	3
INED 4391	3 MATH 3379 or ENGL 3330	3
	15	15

Total Hours: 126-127

MATH 1316 (catalog.shsu.edu/archives/2019-2020/search/?P=MATH%201316) or MATH 1314 (catalog.shsu.edu/archives/2019-2020/search/?P=MATH%201314) or MATH 1420 (catalog.shsu.edu/archives/2019-2020/search/?P=MATH%201420) or MATH 1324 (catalog.shsu.edu/archives/2019-2020/search/?P=MATH%201324) satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirement. MATH 1420 (catalog.shsu.edu/archives/2019-2020/search/?P=MATH%201420) also satisfies 1 semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

<sup>&</sup>lt;sup>2</sup> PLSC 2399 is suggested.