

BACHELOR OF SCIENCE, MAJOR IN ENGINEERING TECHNOLOGY WITH TEACHING CERTIFICATION

Bachelor of Science, Major in Engineering 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)	8
Component Area IV (Language, Philosophy, and Culture)	3
Component Area V (Creative Arts)	3
Component Area VI (U.S. History)	6
Component Area VII (Political Science/Government)	6
Component Area VIII (Social and Behavioral Sciences)	3
Component Area IX (Component Area Option)	4

Degree Specific Requirements

Select one of the following: 3

MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mngl Decision Making	
MATH 1420	Calculus I	

Select one of the following: ¹ 3

MATH 1316	Plane Trigonometry ¹	
MATH 1430	Calculus II	
MATH 2399	Mth For Mngl Decision Making	

PHYS 1301 & PHYS 1101 General Phy-Mechanics & Heat and General Physics Laboratory I 4

PHYS 1302 & PHYS 1102 Gen Phy-Snd,Lght, Elec, & Mag and General Physics Laboratory II 4

ACOM 3360 Communication Skills for Agriculturists 3

Major Core

ETEC 1100	Foundations in Engr Technology	1
ETEE 1340	Electronics Technology I	3
ETEC 1371	Descriptive Geometry	3
ETDD 1361	Engineering Graphics	3
or ETDD 1390	Intro -Computer Aided Drafting	
ETCM 1363	Wood Frame Construction	3

Major

ETEE 2320	Electronics Technology II	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 4364	Teaching in Schools & Industry	3
INED 4391	Lab Mgt,Organization & Control	3

12 hours Advanced Electives selected from: ETEC, ETEE, ETDD, ETCM, ETSM and INED 12

Minor

CISE 3384	The Teaching Profession	3
CISE 4364	Mth Tch Secondary Schools	3
CISE 4377	Assmt Stdnt Lrng In Secondary	3
CISE 4378	Content Literacy	3
CISE 4380	Respon Of Pro Educator	3
CISE 4394	Creatng Env For Lrng-Secondary	3

CISE 4396	Std Tch Secondary Classroom	3
or CISE 4397	Std Tch Secondary Classroom	

Total Hours 123

¹ MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the requirement for Component Area II and the degree specific requirement.

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 Industrial Technology and 21 semester hours in Secondary Education. The courses listed above are required of all students who are majoring in Industrial Technology and seeking a teaching certificate. The student should be advised by the Industrial Sciences and Technology teacher educator. Contact the advisor at (936) 294-1216, or seek advisement for Industrial Sciences at the SAM Center.

First Year

Fall	Hours Spring	Hours
ETEE 1340	3 ETEC 1100	1
ETDD 1361 or 1390	3 ETEE 2320	3
ETCM 1363	3 PHYS 1301 & PHYS 1101	4
MATH 1314, 1324, or 1420 ¹	3 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 III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)	4
Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	1 Component Area IV (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)	3
	16	18

Second Year

Fall	Hours Spring	Hours
ETDD 3310	3 ETEC 1371	3
MATH 1316, 2399, or 1430	3 ETCM 2363	3
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 (PLSC 2399 is suggested)	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
	16	15

Third Year

Fall	Hours Spring	Hours
CISE 3384	3 INED 4364	3
PHYS 1302 & PHYS 1102	4 ETEC 4340	3
Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3 CISE 4364	3
ETEC Program Advanced Electives	6 CISE 4377	3
	CISE 4380	3
	16	15

Fourth Year

Fall	Hours Spring	Hours
INED 4310	3 Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	3
ETEC Program Advanced Electives	6 ACOM 3360	3
INED 4391	3 CISE 4394	3
CISE 4378	3 CISE 4397 or 4396	3
	15	12

 Total Hours: 123

¹ Satisfies Component Area II. MATH 1420 also satisfies one hour of Component Area IX.