

BACHELOR OF SCIENCE, MAJOR IN ENGINEERING TECHNOLOGY WITH TEACHING CERTIFICATION

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology with Teaching Certification		
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		
MATH 3379 or ENGL 3330	Statistical Mthods In Practice Intro To Technical Writing	3
Select one of the following MATH Courses:		3
MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mnjl Decision Making	
MATH 1420	Calculus I	
Select one of the following Math courses: ¹		3-4
MATH 1316	Plane Trigonometry ¹	
MATH 1430	Calculus II	
MATH 2399	Mth For Mnjl 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
Major Core		
ETDD 1361	Engineering Graphics	3
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Electronics Technology I	3
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
Advanced Electives selected from: ETEC, ETEE, ETDD, ETCM, ETSM and INED		15
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

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CISE 4396 or CISE 4397	Std Tch Secondary Classroom Std Tch Secondary Classroom	3
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Total Hours 123-125

¹ 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.

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.

First Year

Fall	Hours Spring	Hours
Component Area I	3 Component Area I	3
Component Area IX	1 Component Area III	4
ETDD 1361	3 Component Area IV	3
ETCM 1363	3 ETEC 1010	1-2
ETEE 1340	3 MATH 1316, 1430, or 2399	3-4
MATH 1314, 1324, or 1420 ¹	3 ETEE 2320	3
	16	17-19

Second Year

Fall	Hours Spring	Hours
Component Area III	4 Component Area VI	3
Component Area V (PLSC 2399 is suggested)	3 Component Area VII	3
Component Area VI	3 Component Area VIII	3
PHYS 1301 & PHYS 1101	4 ETCM 2363	3
ETDD 3310	3 Advanced ETEC elective	3
	17	15

Third Year

Fall	Hours Spring	Hours
Component Area VII	3 ETEC 4340	3
CISE 3384	3 INED 4364	3
ETEC Program Advanced Electives	6 CISE 4378	3
PHYS 1302 & PHYS 1102	4 CISE 4380	3
	16	12

Fourth Year

Fall	Hours Spring	Hours
CISE 4364	3 Component Area IX	3
CISE 4379	3 MATH 3379 or ENGL 3330	3
INED 4310	3 CISE 4394	3
INED 4391	3 CISE 4396 or 4397	3
ETEC Program Advanced Electives	6	
	18	12

Total Hours: 123-125

¹ Satisfies Component Area II (Mathematics). MATH 1420 also satisfies one semester credit hour of Component Area IX (Component Option Area).