BACHELOR OF SCIENCE, MAJOR IN ENGINEERING TECHNOLOGY

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology		
Core Curriculum (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/)		
Component Area I (Communication)		6
Component Area II (Mathematics) [1]		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) [1]		4
Degree Specific Requirements		
ENGL 3330	Intro to Technical Writing	3
or MATH 3379	Statistical Mthods in Practice	
MATH 1314	Pre Calculus Algebra [1]	3
MATH 1316	Plane Trigonometry [1]	3-4
or PHYS 1401	Physics Boot Camp	
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	Introduction to Circuits	3
ETEC 1371	Descriptive Geometry	3
or ETDD 1366	Machining Technology I	
Major		
ETDD 3310	Product Design & Development	3
ETDD 4380	Material Hand & Plant Layout	3
ETEC 2382	Manufacturing Processes	3
ETEC 3367	Engineering Materials Techn	3
ETEC 3374	Time And Motion Study	3
or ETEC 3300	Technology Innovations	
ETEC 3375	Statics	3
ETEC 4340	Alternative Energy Technology	3
or ETEC 3340	Solar and Wind Energy Systems	
ETEE 4352	Instrumentation & Interfacing	3
ETEC 4384	Supervisory Personnel Practice	3
ETEC 4391	Work Base Mentorship	3
ETEC 4399	Senior Design	3
ETSM 3386	Industrial Safety	3
Minor (required)		
Minor		6
Minor (12 hours advanced)		12
Total Hours		**120-122**

[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.MATH 1420 also satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).

Note: Students should use elective and/or minor hours to satisfy the 42 advanced hour requirement.

First Year

Fall	Hours	Spring	Hours
Component Area I (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)	3	Component Area I (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)	3
Component Area IX (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	4	Component Area IV (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)	3
ETDD 1361	3	ETEC 1371 or ETDD 1366	3
ETEC 1010	1-2	ETEE 1340	3
MATH 1314[1]	3	MATH 1316 or PHYS 1401[1]	3-4
	14-15		**15-16**

Second Year

Fall	Hours	Spring	Hours
Component Area V (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)	3	Component Area VI (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3
Component Area VI (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3	Component Area VII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3
ETEC 2382	3	Component Area VIII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)	3
Minor Courses	3	ENGL 3330 or MATH 3379	3
PHYS 1301 & PHYS 1101	4	PHYS 1302 & PHYS 1102	4
	16		**16**

Third Year

Fall	Hours	Spring	Hours
Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)	4	Component Area III (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)	4
Component Area VII (http://catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3	ETDD 3310	3
ETDD 4380	3	ETEC 3374 or 3300	3
ETEC 3367	3	ETEC 4384	3
Minor Courses	3	Minor Courses (Advanced)	3
	16		**16**

Fourth Year

Fall	Hours	Spring	Hours
ETEC 4340 or 3340	3	ETEC 3375	3
ETEE 4352	3	ETEC 4391	3
ETSM 3386	3	ETEC 4399	3

Minor Courses (Advanced)	6 Minor Courses (Advanced)	3
	15	**12**

Total Hours: 120-122

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The Texas Higher Education Coordinating Board (THECB) marketable skills initiative is part of the state's **60x30TX plan** and was designed to help students articulate their skills to employers. Marketable skills are those skills valued by employers and/or graduate programs that can be applied in a variety of work or education settings and may include interpersonal, cognitive, and applied skill areas.

The BS in Engineering Technology is designed to provide graduates with the following marketable skills:

- Communicate technology problem solutions.
- Apply technology tools in applied engineering and technology.
- Analyze data and notice trends to successfully provide solutions.
- Team-based skills including leadership and conflict resolution abilities.
- Prepare to engage in lifelong learning.