

BACHELOR OF SCIENCE, MAJOR IN ENGINEERING TECHNOLOGY

Additional information: Reference the Program Landing Page (<https://www.shsu.edu/programs/bachelor-of-science-in-engineering-technology/>) for additional information, such as cost, delivery format, contact information, or to schedule a visit.

Code	Title	Hours
Bachelor of Science, Major in Engineering Technology		
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 or MATH 3379	Introduction to Technical Writing Statistical Methods in Practice	3
MATH 1314	Pre Calculus Algebra ¹	3
MATH 1316 or PHYS 1401	Plane Trigonometry ¹ Physics Boot Camp	3
PHYS 1301 & PHYS 1101	General Physics-Mechanics and Heat and General Physics Laboratory I	4
PHYS 1302 & PHYS 1102	General Physics-Sound, Light, Electricity, and Magnetism and General Physics Laboratory II	4
Major: Foundation		
ETDD 1361	Engineering Graphics	3
ETDD 3310 or ETEE 3313	Product Design & Development Industrial Robotics	3
ETDD 4380	Material Hand & Plant Layout	3
ETDD 4388 or ETDD 4339	3-Dimensional Parametric Design Advanced Computer-Aided Drafting and Modeling	3
ETEC 1010	Engineering Foundations	1
ETEC 1371 or ETDD 1366	Descriptive Geometry Machining Technology I	3
ETEC 2382 or ETDD 2366	Manufacturing Processes Machining Technology II	3
ETEC 3367	Engineering Materials Techniques	3
ETEC 3374 or ETEC 3300	Time And Motion Study Technology Innovations	3
ETEC 4099	Engineering Innovation	1
ETEC 4315	Quality Assurance and Control	3
ETEC 4340 or ETEC 3340	Alternative Energy Technology Solar and Wind Energy Systems	3
ETEC 4384 or ETEC 4355	Supervisory Personnel Practice Agile Technology Framework	3
ETEC 4399	Senior Design II	3
ETEC 4391	Work Base Mentorship	3
ETEE 1340	Introduction to Circuits	3

ETSM 3386	Industrial Safety	3
Minor: Required ²		
Minor		6
Minor (12 hours advanced)		12
Total Hours		121

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).

² All minors can be paired with this degree program.

Notes

Students must earn a 2.0 minimum overall GPA in all coursework.

Students must meet a 2.0 minimum overall major GPA in all major coursework.

Students must earn a 2.0 minimum SHSU GPA in all coursework.

Students must meet a 2.0 minimum SHSU major GPA in all major coursework.

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

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First Year

Fall	Hours	Spring	Hours
Component Area I		3 Component Area I	3
Component Area IX		4 Component Area IV	3
ETDD 1361		3 ETEC 1371 or ETDD 1366	3
ETEC 1010		1 ETEE 1340	3
MATH 1314 ¹		3 MATH 1316 or PHYS 1401 ¹	3-4
		14	15-16

Second Year

Fall	Hours	Spring	Hours
Component Area V		3 Component Area VI	3
Component Area VI		3 Component Area VII	3
ETEC 2382 or ETDD 2366		3 Component Area VIII	3
PHYS 1301 & PHYS 1101		4 ENGL 3330 or MATH 3379	3
Minor ²		3 PHYS 1302 & PHYS 1102	4
		16	16

Third Year

Fall	Hours	Spring	Hours
Component Area III		4 Component Area III	4
Component Area VII		3 ETDD 3310 or ETEE 3313	3
ETDD 4380		3 ETEC 3374 or 3300	3
ETEC 3367		3 ETEC 4384 or 4355	3
Minor ²		3 Minor Advanced ²	3
		16	16

Fourth Year

Fall	Hours	Spring	Hours
ETDD 4388 or 4339		3 ETEC 4315	3
ETEC 4099		1 ETEC 4391	3
ETEC 4340 or 3340		3 ETEC 4399	3

ETSM 3386	3 Minor Advanced ²	3
Minor Advanced ²	6	
16		12

Total Hours: 121-122

- 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).
- ² All minors can be paired with this degree program.

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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.