BACHELOR OF SCIENCE, MAJOR IN ENGINEERING DESIGN TECHNOLOGY

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

Code	Title	Hours			
Bachelor of Science, Major in Engin	eering Design and 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) ²					
Component Area IV (Language, Phil	osophy, and Culture)	3			
Component Area V (Creative Arts)		3			
Component Area VI (U.S. History)					
Component Area VII (Political Science/Government)					
Component Area VIII (Social and Be	Component Area VIII (Social and Behavioral Sciences)				
Component Area IX (Component Are	ea Option) ¹	4			
Degree Specific Requirements					
MATH 1314	Pre Calculus Algebra ¹	3			
MATH 1316	Plane Trigonometry ¹	3			
MATH 3379	Statistical Mthods in Practice	3			
or ENGL 3330	Intro to Technical Writing				
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: Foundation					
ETCM 2363	Architectural Design	3			
ETDD 1361	Engineering Graphics	3			
ETDD 3310	Product Design & Development	3			
ETDD 3366	Intro to Virtual and Augmented Reality	3			
ETDD 3379	Industrial Design & Drafting	3			
ETDD 4339	Advanced Computer-Aided Drafting and Modeling	3			
ETDD 4380	Material Hand & Plant Layout	3			
ETDD 4388	3D Parametric Design	3			
ETEC 1010	Engineering Foundations	1			
ETEC 1371	Descriptive Geometry	3			
or ETDD 1366	Machining Technology I				
ETEC 3367	Engineering Materials Techn	3			
ETEC 3374	Time And Motion Study	3			
or ETEC 3300	Technology Innovations				
ETEC 3375	Statics	3			
ETEC 4099	Engineering Innovation	1			
ETEC 4384	Supervisory Personnel Practice	3			
or ETEC 4376	Strength of Materials				
ETEC 4391	Work Base Mentorship	3			
ETEC 4399	Senior Design	3			
ETEE 1340	Introduction to Circuits	3			
ETSM 3386	Industrial Safety	3			
Minor: Required ³					

 Minor
 6

 Minor (9 hours advanced)
 9

 Total Hours
 124

- 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. In addition, MATH 1420 satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).
- Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.
- 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.

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Spring

Hours

Hours

First Year

Fall

		16	1
Minor ²		3 PHYS 1302 & PHYS 1102	
PHYS 1301 & PHYS 1101		4 MATH 3379 or ENGL 3330	
ETDD 3310		3 Component Area VIII (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaviii)	
ETCM 2363		3 Component Area VII (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareavii)	
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)	
Fall	Hours	Spring	Hours
Second Year			
		14	1
MATH 1314 ¹		3 MATH 1316 ¹	
ETDD 1361 ETEC 1010		3 ETEC 1371 or ETDD 1366 1 ETEE 1340	
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)	
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)	/

Third Year				
Fall	Hours	Spring	Hours	
Component Area III (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaiii) ³		4 Component Area III (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareaiii) ³		4
ETDD 3366		3 Component Area V (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareav)		3
ETEC 3375		3 ETEC 3367		3
ETDD 3379		3 ETEC 3374 or 3300		3
Minor ²		3 ETSM 3386		3
		16		16
Fourth Year				
Fall	Hours	Spring	Hours	
Component Area VII (http://catalog.shsu.edu/ undergraduate/academic-policies-procedures/degree- requirements-academic-guidelines/core-curriculum/ #componentareavii)		3 ETDD 4388		3
ETDD 4339		3 ETEC 4391		3
ETDD 4380		3 ETEC 4399		3
ETEC 4099		1 Minor Advanced ²		6
ETEC 4384 or 4376		3		
Minor Advanced ²		3		
		16		15

Total Hours: 124

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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.

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 Design Technology is designed to provide graduates with the following marketable skills:

- · Conduct engineering design using Computer Aided Design (CAD) tools.
- · Fabricate prototypes via various manufacturing processes and equipment.
- · Communicate effectively in both written and verbal forms.
- · Work collaboratively in a team environment.

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