BACHELOR OF SCIENCE, MAJOR IN ENGINEERING TECHNOLOGY - CONCENTRATION IN ELECTRONICS

Code	Title	Hours
Bachelor of Science, Major in Engin	eering Technology - Concentration in Electronics	
	su.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-	
Component Area I (Communication		6
Component Area II (Mathematics) 1		3
Component Area III (Life and Physic	cal Science)	8
Component Area IV (Language, Phil	osophy, and Culture)	3
Component Area V (Creative Arts)		
Component Area VI (U.S. History)		
Component Area VII (Political Science/Government)		
Component Area VIII (Social and Behavioral Sciences)		
Component Area IX (Component Ar	ea Option) ¹	4
Degree Specific Requirements		
MATH 1314	Pre Calculus Algebra ¹	3
MATH 1316	Plane Trigonometry ¹	3
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	
ENGL 3330	Intro to Technical Writing	3
or MATH 3379	Statistical Mthods in Practice	
Major: Foundation		
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Introduction to Circuits	3
ETDD 1361	Engineering Graphics	3
ETEE 2320	Circuits and Systems	3
ETSM 3386	Industrial Safety	3
ETEC 3340	Solar and Wind Energy Systems	3
or ETEC 4340	Alternative Energy Technology	
ETEC 4384	Supervisory Personnel Practice	3
or ETEE 3313	Industrial Robotics	
ETEE 3345	Digital Electronics	3
ETEE 3350	Analog Electronics	3
ETEE 3360	Electrical Power & Machinery	3
ETEE 3373	Control Systems Technology	3
ETEE 3376	Microcontroller Applications	3
ETEE 4351	Automation & PLCs	3
ETEE 4352	Instrumentation & Interfacing	3
ETEC 4399	Senior Design	3
ETEC 4391	Work Base Mentorship (internship)	3
Minor: Required ²		
Minor		6
Minor (12 hours advanced)		12
Total Hours		120-121

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 will also satisfy one semester credit hour of Core Curriculum Component Area IX (Component Area Option).

- 2 Bachelor of Science, Major in Engineering Technology Concentration in Electronics
- 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.

Hours

Spring

Hours

Fall

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-quidelines/core-curriculum/#componentareai)		3
Component Area IX (http://catalog.shsu.edu/		4 Component Area IV (http://catalog.shsu.edu/		3
undergraduate/academic-policies-procedures/degree-		undergraduate/academic-policies-procedures/degree-		Ū
requirements-academic-guidelines/core-curriculum/		requirements-academic-guidelines/core-curriculum/		
#componentareaix)		#componentareaiv)		
ETEC 1010		1-2 ETDD 1361		3
ETEE 1340		3 ETEE 2320		3
MATH 1314 ¹		3 MATH 1316 ¹		3
14-15				
Second Year				
Fall	Hours	Spring	Hours	
Component Area V (http://catalog.shsu.edu/		3 Component Area VI (http://catalog.shsu.edu/		3
undergraduate/academic-policies-procedures/degree-		undergraduate/academic-policies-procedures/degree-		
requirements-academic-guidelines/core-curriculum/		requirements-academic-guidelines/core-curriculum/		
#componentareav)		#componentareavi)		
Component Area VI (http://catalog.shsu.edu/		3 Component Area VII (http://catalog.shsu.edu/		3
undergraduate/academic-policies-procedures/degree-		undergraduate/academic-policies-procedures/degree-		
requirements-academic-guidelines/core-curriculum/		requirements-academic-guidelines/core-curriculum/		
#componentareavi)		#componentareavii)		
ETEC 3340 or 4340		3 Component Area VIII (http://catalog.shsu.edu/		3
		undergraduate/academic-policies-procedures/degree-		
		requirements-academic-guidelines/core-curriculum/		
		#componentareaviii)		
ETEE 3350		3 ENGL 3330 or MATH 3379		3
PHYS 1301		4 PHYS 1302		4
& PHYS 1101		& PHYS 1102		
		16		16
Third Year				
Fall	Hours	Spring	Hours	
Component Area III (http://catalog.shsu.edu/		4 Component Area III (http://catalog.shsu.edu/		4
undergraduate/academic-policies-procedures/degree-		undergraduate/academic-policies-procedures/degree-		
requirements-academic-guidelines/core-curriculum/		requirements-academic-guidelines/core-curriculum/		
#componentareaiii)		#componentareaiii)		
Component Area VII (http://catalog.shsu.edu/		3 ETEC 4384 or ETEE 3313		3
undergraduate/academic-policies-procedures/degree-				
requirements-academic-guidelines/core-curriculum/ #componentareavii)				
ETEE 3373		3 ETSM 3386		3
Minor ²		6 Minor Advanced ²		6
IVIIIIUI				
		16		16

Fourth Yo

Fall	Hours S	Spring	Hours
ETEE 3345	3 E	ETEE 3360	3
ETEE 3376	3 E	ETEE 4352	3
ETEE 4351	3 E	ETEC 4391	3
Minor Advanced ²	6 E	ETEC 4399	3
	15		12

Total Hours: 120-121

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.

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 - Concentration in Electronics is designed to provide graduates with the following marketable skills:

- · Select and effectively apply modern electric, electronics, controls, and computer devices and systems.
- · Test and troubleshoot for effective and efficient operations of analog, digital, microcontroller and communication circuits and systems.
- Embed state-of-the-art automation, robotics, instrumentation, and data acquisition hardware and software tools into industrial environments.
- · Prepare technical reports, product manuals, and testing instructions; and communicate effectively.
- Learn about and practice safety and supervisory skills related to electronics.

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 will also satisfy one semester credit hour of Core Curriculum Component Area IX (Component Area Option).

All minors can be paired with this degree program.