

# BACHELOR OF SCIENCE, MAJOR IN ELECTRONICS AND COMPUTER ENGINEERING TECHNOLOGY

**Core Curriculum** ([catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/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)	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	
<b>Degree Specific Requirements</b>		
ENGL 3330	Intro To Technical Writing	3
or MATH 3379	Statistical Methods In Practice	
MATH 1316	Plane Trigonometry <sup>1</sup>	3
MATH 1420	Calculus I <sup>2</sup>	4
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
Select 8 hours from BIOL, CHEM, GEOL OR GEOG 1401 (exclude PHYS) <sup>3</sup>		8
<b>Major Core</b>		
COSC 1436	Programming Fundamentals I	4
COSC 1437	Programming Fundamentals II	4
ETDD 1361	Engineering Graphics	3
ETEE 1340	Electronics Technology I	3
<b>Major</b>		
COSC 2327	Intro to Computer Networks	3
COSC 2329	Comp Organiz & Machine Lang	3
COSC 3327	Computer Architecture	3
COSC 4326	Network Theory	3
COSC 4349	Professionalism and Ethics	3
ETEC 3340	Solar and Wind Energy Systems	3
ETEC 3376	Microcontroller Applications	3
ETEC 4340	Alternative Energy Technology	3
ETEE 2320	Electronics Technology II	3
ETEE 3350	Solid State Electronics	3
ETEE 3373	Industrial Electronics	3
ETEE 4373	Digital Electronics	3
Internship		6
ETEC 4391	Work Base Mentorship	
Advanced ETEE Electives		9
<b>Total Hours</b>		<b>121</b>

<sup>1</sup> MATH 1316 satisfies the Core Curriculum requirement for Component Area II (Mathematics) and the Degree Specific requirements.

<sup>2</sup> MATH 1420 satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option) and the Degree Specific requirements.

<sup>3</sup> Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science) and Degree Specific requirements.

**First Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)	3 Component Area I (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareai)	3
Component Area IX (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaix)	3 Component Area IV (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiiv)	3
ETDD 1361	3 COSC 1436	4
ETEE 1340	3 ETEE 2320	3
MATH 1316 <sup>1</sup>	3 MATH 1420 <sup>2</sup>	4
	15	17

**Second Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3 Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3
Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)	3 Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3
COSC 1437	4 Component Area VIII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)	3
ETEE 3350	3 ENGL 3330 or MATH 3379	3
PHYS 1301 & PHYS 1101	4 PHYS 1302 & PHYS 1102	4
	17	16

**Third Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3 Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)	4
Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii)	4 COSC 3327	3
COSC 2327	3 ETEC 3340	3
COSC 2329	3 ETEE 4373	3
ETEE 3373	3 ETEE Advanced Elective	3
	16	16

**Fourth Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
COSC 4349	3 COSC 4326	3
ETEC 3376	3 Internship	6
ETEC 4340	3 ETEC 4391	
ETEE Advanced Elective	3 ETEE Advanced Elective	3
	12	12

Total Hours: 121

<sup>1</sup> Satisfies Core Curriculum requirement for Component Area II (Mathematics).<sup>2</sup> Satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Component Area Option).