

# BACHELOR OF SCIENCE, MAJOR IN DESIGN AND DEVELOPMENT

## Bachelor of Science, Major in Design and Development

**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

## Degree Specific Requirements

Select one of the following: <sup>1</sup> 3

MATH 1314	Pre Calculus Algebra	
MATH 1324	Mth For Mngl Decision Making	
MATH 1420	Calculus I	
MATH 1316	Plane Trigonometry	3
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
ACOM 3360 or ENGL 3330	Communication Skills for Agriculturists Intro To Technical Writing	3
Select 8 hours from BIOL, CHEM, GEOL OR GEOG 1401 (excluding PHYS)		8

## Major Core

EETC 1100	Foundations in Engr Technology	1
ETEE 1340	Electronics Technology I	3
ETDD 1361 or ETDD 1390	Engineering Graphics Intro -Computer Aided Drafting	3
EETC 1371	Descriptive Geometry	3

## Major

ETCM 2363	Architectural Design	3
ETDD 3310	Product Design & Development	3
ETDD 3379	Industrial Systems Drafting	3
ETDD 4339	Computer-Aided Drafting Produc	3
ETDD 4380	Material Hand & Plant Layout	3
ETDD 4388	3D Parametric Design	3
EETC 3374 or INED 4310	Time And Motion Study Occup. Human Relations in CTE	3
EETC 3375	Statics	3
EETC 4367	Engineering Materials Techn	3
EETC 4384 or EETC 3300	Supervisory Personnel Practice Technology Innovations	3
EETC 4391	Work Base Mentorship	

6 hours Internship		6
ETSM 4382	Industrial Safety	3

## Minor (Suggest GBA or a program in ETEC Department)

Minor		9
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Minor (9 hours advanced)	9
<b>Total Hours</b>	<b>123</b>

<sup>1</sup> MATH 1316 or MATH 1314 or MATH 1420 or MATH 1324 satisfies the requirement for Component Area II and the degree specific requirement.

**First Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
EETC 1100	1 ETEE 1340	3
ETDD 1361 or 1390	3 ETEC 1371	3
MATH 1314, 1324, or 1420 <sup>1</sup>	3 MATH 1316	3
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)	4 Component Area IV (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiv)	3
	14	15

**Second Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
ETCM 2363	3 ACOM 3360 or ENGL 3330	3
ETDD 3310	3 Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3
PHYS 1301 & PHYS 1101	4 Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3
Minor	3 Component Area VIII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)	3
Component Area VI (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavi)	3	
	16	12

**Third Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
ETDD 3379	3 ETEC 4367	3
EETC 3375	3 ETSM 4382	3
PHYS 1302 & PHYS 1102	4 ETEC 3374 or INED 4310	3
Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) <sup>2</sup>	4 Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) <sup>2</sup>	4
	Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)	3
	14	16

**Fourth Year**

<b>Fall</b>	<b>Hours Spring</b>	<b>Hours</b>
ETDD 4380	3 ETDD 4388	3
ETDD 4339	3 Internship	6
EETC 4384 or 3300	3 ETEC 4391	
Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3 Minor	9

Minor	6	
	18	18

Total Hours: 123

- <sup>1</sup> Satisfies Component Area II. MATH 1420 also satisfies one hour of Component Area IX.
- <sup>2</sup> Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.