

BACHELOR OF SCIENCE, MAJOR IN DESIGN AND DEVELOPMENT

Code	Title	Hours
Bachelor of Science, Major in Design and Development		
Core Curriculum (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		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		
MATH 3379 or ENGL 3330	Statistical Methods in Practice Intro to Technical Writing	3
MATH 1314	Pre Calculus Algebra	3
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
Major Core		
ETEC 1010	Engineering Foundations	1-2
ETEE 1340	Introduction to Circuits	3
ETDD 1361	Engineering Graphics	3
ETEC 1371	Descriptive Geometry	3
Major		
ETCM 2363	Architectural Design	3
ETDD 3310	Product Design & Development	3
ETEC 3367	Engineering Materials Techn	3
ETEC 3374 or ETEC 3300	Time And Motion Study Technology Innovations	3
ETEC 3375	Statics	3
ETDD 3379	Industrial Systems Drafting	3
ETDD 4339	Computer-Aided Drafting Produc	3
ETDD 4380	Material Hand & Plant Layout	3
ETSM 4382	Industrial Safety	3
ETEC 4384 or ETEC 4376	Supervisory Personnel Practice Strength of Materials	3
ETDD 4388	3D Parametric Design	3
6 hours Internship		6
ETEC 4391	Work Base Mentorship	
Minor		
Minor		9
Minor (9 hours advanced)		9
Total Hours		123-124

- 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.
- ² Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.

First Year

Fall	Hours Spring	Hours
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/#componentareaiiv)	3
ETDD 1361	3 ETEC 1371	3
ETEC 1010	1-2 ETEE 1340	3
MATH 1314 ¹	3 MATH 1316	3
	14-15	15

Second Year

Fall	Hours Spring	Hours
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
ETCM 2363	3 Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3
ETDD 3310	3 Component Area VIII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaviii)	3
Minor Course	3 MATH 3379 or ENGL 3330	3
PHYS 1301 & PHYS 1101	4 PHYS 1302 & PHYS 1102	4
	16	16

Third Year

Fall	Hours Spring	Hours
Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) ²	4 Component Area III (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareaiii) ²	4
ETDD 3379	3 Component Area V (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareav)	3
ETEC 3375	3 ETEC 3367	3
Minor Courses	6 ETEC 3374 or 3300 ETSM 4382	3 3
	16	16

Fourth Year

Fall	Hours Spring	Hours
Component Area VII (catalog.shsu.edu/undergraduate/academic-policies-procedures/degree-requirements-academic-guidelines/core-curriculum/#componentareavii)	3 ETDD 4388	3
ETDD 4339	3 Internship	6
ETDD 4380	3 ETEC 4391	3
ETEC 4384 or 4376	3 Minor Courses - advanced	6
Minor Courses - advanced	3	3
	15	15

Total Hours: 123-124

- ¹ Satisfies Core Curriculum requirement for Component Area II (Mathematics). MATH 1420 also satisfies one semester credit hour of the Core Curriculum requirement for Component Area IX (Core Component Option).
- ² Must be taken from BIOL, CHEM, GEOL, or GEOG 1401 only.