

PRE-ENGINEERING

Students wishing to major in any of the many fields of engineering may take their first two years in pre-engineering at Sam Houston State University and transfer to a college of engineering to complete their degree requirements.

Pre-Engineering

Core Curriculum (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

CHEM 1411	General Chemistry I ¹	4
CHEM 1412	General Chemistry II ¹	4
COSC 1436	Programming Fundamentals I	4
ENGL 3330	Intro To Technical Writing	3
ETDD 1361	Engineering Graphics	3
KINE elective		1

Major Core

PHYS 1411	Introduction To Physics I	4
PHYS 1401	Physics Boot Camp	4
PHYS 1422	Introduction To Physics II	4

Minor (if required)

MATH 1420	Calculus I ¹	4
MATH 1430	Calculus II	4
MATH 2440	Calculus III	4

Total Hours		65
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¹ CHEM 1411 and CHEM 1412 satisfy the Core Curriculum requirement for Component Area III (Life and Physical Science) and MATH 1420 satisfies the Core Curriculum requirement for Component Area II (Mathematics), one semester credit hour of Component Area IX (Component Area Option), and the Degree Specific requirement. This is to satisfy the first two years toward an engineering degree.