



## BSEE Notes

(a) Natural Science Elective

Course selected may not be used to fulfill any other course or elective requirement.

Select From:

Any course having attribute SOE-Natural Sciences, except PHY 41

(b) Humanities Elective

At least 3 SHU of Humanities are required. Requirement may not be satisfied with pre-matriculation credits, ENG 1, or ENG 3.

Select From:

Any course having attribute SOE-HASS-Humanities

(c) Social Sciences Elective

At least 3 SHU of Social Sciences are required. Requirement may not be satisfied with pre-matriculation credits.

Select From:

Any course having attribute SOE-HASS-Social Sciences

(d) Humanities, Arts or Social Sciences Electives

Select From:

Any course having attribute SOE-HASS

Any course having attribute SOE-HASS-Humanities

Any course having attribute SOE-HASS-Arts

Any course having attribute SOE-HASS-Social Sciences

(e) Electrical Engineering Breadth Electives

Courses selected may not be used to fulfill any other course or elective requirement.

Select From:

EE 18, EE 22, EE 105, EE 107

(f) Electrical Engineering Electives

Courses selected may not be used to fulfill any other course or elective requirement.

Select From:

Any EE course having attribute SOE-Engineering

Any EE course having attribute SOE-Computing

(g) Technical Electives

Courses selected may not be used to fulfill any other course or elective requirement.

Select From:

Any course having attribute SOE-Engineering, except ES 3

Any course having attribute SOE-Computing

Any course having attribute SOE-Mathematics

Any course having attribute SOE-Natural Sciences

(h) Technical Electives

Courses selected may not be used to fulfill any other course or elective requirement.

Select From:

Any ES course having attribute SOE-Engineering, except ES 3

Any ES course having attribute SOE-Computing

Any course having attribute SOE-Mathematics

Any course having attribute SOE-Natural Sciences

Any of the following additionally approved courses:

Computer Science: COMP 15, COMP 40, COMP 160

## BSEE Course Selection Guidance

### Fall Semester, First Year

Course	SHU	SOE Attribute
<i>EN 1 Introduction to Engineering</i>	3	Engineering
MATH 32 Calculus I	3	Mathematics
PHY 11 General Physics I with laboratory	5	Natural Sciences
<i>ENG 1 Expository Writing</i>	3	HASS

**Semester Total SHU 14**

### Spring Semester, First Year

Course	SHU	SOE Attribute
<i>ES 2 Introduction to Computing in Engineering</i>	4	Computing
MATH 34 Calculus II	3	Mathematics
PHY 12 General Physics II with laboratory	5	Natural Sciences
<i>HASS Elective</i>	3-5	HASS

**Semester Total SHU 15-17**

### Fall Semester, Second Year

Course	SHU	SOE Attribute
ES 4 Introduction to Digital Logic Circuits with laboratory	4	Engineering
MATH 42 Calculus III	4	Mathematics
EE 20 Introduction to Circuits & Electronics	4	Engineering
COMP 11 Introduction to Computer Science	4	Computing
<i>HASS Elective</i>	3-5	HASS

**Semester Total SHU 19-21**

### Spring Semester, Second Year

Course	SHU	SOE Attribute
EE14 Microprocessor Architecture & Applications with lab.	4	Engineering
EE 21 Electronics I with laboratory	4	Engineering
EE 23 Linear Systems	4	Mathematics
MATH 51 Differential Equations	4	Mathematics
<i>HASS Elective</i>	3-5	HASS

**Semester Total SHU 19-21**

### Fall Semester, Third Year

Course	SHU	SOE Attribute
EE Breadth Elective	3-4	Engineering
MATH 70 Linear Algebra	3	Mathematics
Technical Elective	3-5	varies with selection
CHEM 1 Chemical Fundamentals w/ laboratory or PHY 13 Intro. Modern Physics	4-5	Natural Sciences
<i>HASS Elective</i>	3-4	HASS

**Semester Total SHU 16-21**

### Spring Semester, Third Year

Course	SHU	SOE Attribute
EE 24 Probabilistic Systems Analysis	3	Mathematics
EE 31 Junior Design Project	3	Engineering
EE Breadth Elective	3-4	Engineering
Technical Elective	3-5	varies with selection
Natural Science Elective	3-5	Natural Sciences

**Semester Total SHU 15-20**

### Fall Semester, Fourth Year

Course	SHU	SOE Attribute
EE 97 Senior Design Project	2	Engineering
EE Electives	9-15	varies with selection
<i>HASS Elective</i>	3-5	HASS

**Semester Total SHU 14-21**

### Spring Semester, Fourth Year

Course	SHU	SOE Attribute
EE 98 Senior Design Project	2	Engineering
Technical Electives	6-10	varies with selection
<i>HASS Electives</i>	6-12	HASS

**Semester Total SHU 14-21**