



## BSCPE 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
- (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 Elective  
Courses selected may not be used to fulfill any other course or elective requirement.  
Select From:  
EE 18, EE 21, EE 23, EE 26
- (f) Electrical Engineering Depth Elective  
Courses selected may not be used to fulfill any other course or elective requirement.  
Select From:  
EE 103, EE 105, EE 107, EE 125
- (g) Computer Engineering Electives  
Courses selected may not be used to fulfill any other course or elective requirement.  
Select From:  
EE 126, EE 128, EE 129, COMP 160
- (h) Computer Engineering Electives  
Courses selected may not be used to fulfill any other course or elective requirement.  
Select From:  
Any EE or COMP course having attribute SOE-Engineering  
Any EE or COMP course having attribute SOE-Computing
- (i) Computer Engineering Electives  
Courses selected may not be used to fulfill any other course or elective requirement.  
Select From:  
Any course having attribute SOE-Engineering  
Any course having attribute SOE-Computing  
Any course having attribute SOE-Mathematics

## BSCPE Course Selection Guidance

### Fall Semester, First Year

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

**Semester Total SHU 14**

### Spring Semester, First Year

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

**Semester Total SHU 19-21**

### Spring Semester, Second Year

Course	SHU	SOE Attribute
EE14 Embedded Systems	4	Engineering
MATH 51 Differential Equations or MATH 70 Linear Algebra or MATH 72 Abstract Linear Algebra	3-4	Mathematics
CHEM 1 Chemical Fundamentals w/ laboratory or PHY 13 Intro. Modern Physics	4-5	Natural Sciences
COMP 15 Data Structures	4	Computing
HASS Elective	3-5	HASS

**Semester Total SHU 18-21**

### Fall Semester, Third Year

Course	SHU	SOE Attribute
EE 25 Computer Organization	3	Engineering
EE Breadth	3-5	varies with selection
MATH 61 Discrete Mathematics	3	Mathematics
Natural Science Elective	3-5	Natural Sciences
HASS Elective	3-5	HASS

**Semester Total SHU 15-21**

### Spring Semester, Third Year

Course	SHU	SOE Attribute
EE 24 Probabilistic Systems Analysis	3	Mathematics
EE 31 Junior Design Project	3	Engineering
CompE Electives	6-10	varies with selection
HASS Elective	3-5	HASS

**Semester Total SHU 15-21**

### Fall Semester, Fourth Year

Course	SHU	SOE Attribute
EE 97 Senior Design Project	2	Engineering
EE Depth Elective	3-5	Engineering
CompE Electives	9-13	varies with selection
HASS Electives	3-5	HASS

**Semester Total SHU 17-21**

### Spring Semester, Fourth Year

Course	SHU	SOE Attribute
EE 98 Senior Design Project	2	Engineering
CompE Electives	9-12	varies with selection
HASS Elective	3-5	HASS

**Semester Total SHU 14-19**