

**Tufts University -- School of Engineering**  
**Class of 2018**  
**Bachelor of Science in Chemical Engineering (BSCHE)**  
**Degree Checklist**

Student: \_\_\_\_\_

Advisor: \_\_\_\_\_

ID #: \_\_\_\_\_

<b>Introductory Mathematics &amp; Natural Science* (8 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>M/NS</b>
MATH 32			
MATH 36			
MATH 42			
MATH 51			
CHEM 1			
CHEM 2			
PHYS 11			
BIO 13 or ES 11			

<b>Introductory First-Year Engineering* (2 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>E</b>
ES 93			
ES 2			

<b>Humanity/Art/Social Sci (6 Credits) ( e )</b>	<b>Term</b>	<b>Grade</b>
ENG 1* or 3		
H		
SS		
HASS Elect		
HASS Elect		
HASS Elect		

\* No Pass/Fail

<b>Foundation* (9 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>M/NS</b>	<b>E</b>
ES 3				
ES 10				
CHEM 31				
CHEM 33 (0.5)				
CHEM 51				
CHEM 53 (0.5)				
CHBE 10				
Found Elect ( c )				
Found Elect (a,b)				
Found Elect (a,b,c,d)				

<b>Concentration* (12 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>M/NS</b>	<b>E</b>
<i>Required (10 Credits)</i>				
CHBE 11 (1.5)				
CHBE 21				
CHBE 22				
CHBE 39				
CHBE 45				
CHBE 51 (0.5)				
CHBE 52				
CHBE 60				
CHBE 102				
CHBE 109				
<i>Concentration Electives (2 Credits)</i>				
Conc Elect				
Conc Elect				

<b>Free Electives (1 Credit)</b>	<b>Term</b>	<b>Grade</b>	<b>M/NS</b>	<b>E</b>
Free Elect				

<b>Total Engineering ( E ) Course Credits <math>\geq</math> 14.5</b>	
<b>Total Math/Natural Science (M/NS) Course Credits <math>\geq</math> 9.5</b>	

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

ABET Program Director Signature: \_\_\_\_\_

Date: \_\_\_\_\_

## **BSCHE – Notes**

(a) Chemistry 32, 42, 52, 61, 132, 133, 135, 136, 141, 150, 151, 152, 155, 161, 162, 163, 171

(b) CHBE 121, 122, 140

(c) Biology 14, 41, 46, 104, 105, 106, 134, 152,  
62 (CHBE 62), 162 (CHBE 162), 163 (CHBE 163), 168 (CHBE 168),  
BME 153 (CHBE 164)

(d) Physics Use iSIS - Must be PHY courses with attribute value: SoE – Nat Sci

(e) Humanity/Art/Social Science (HASS):

Use iSIS – Must be courses with attribute value: SoE - HASS

Courses selected must include a minimum of one credit in each area of Humanities (H) and Social Sciences (SS). In addition, at least two HASS course credits must be taken in the same department.

# BSCHE

## Guidelines for Course Selection

### Fall – 1<sup>st</sup> Year (4.0 Credits)

ES 93  
MATH 32  
CHEM 1  
ENG 1

### Spring – 1<sup>st</sup> Year (4.0 Credits)

ES 2  
MATH 36  
CHEM 2  
PHY 11

### Fall – 2<sup>nd</sup> Year (5.5 Credits)

MATH 42  
CHBE 10  
BIO 13 or ES 11  
CHEM 31  
CHEM 33 (0.5)  
HASS

### Spring – 2<sup>nd</sup> Year (5.5 Credits)

MATH 51  
CHBE 11 (1.5)  
ES 10  
CHBE 39  
HASS

### Fall – 3<sup>rd</sup> Year (4.5 Credits)

CHEM 51  
CHEM 53 (0.5)  
CHBE 21  
ES 3  
Foundation Elective

### Spring – 3<sup>rd</sup> Year (4.0 Credits)

Foundation Elective  
CHBE 22  
CHBE 102  
HASS

### Fall – 4<sup>th</sup> Year (5.5 Credits)

CHBE 45  
CHBE 51 (0.5)  
Foundation Elective  
Conc. Elective  
Conc. Elective  
HASS

### Spring – 4<sup>th</sup> Year (5.0 Credits)

CHBE 52  
CHBE 60  
CHBE 109  
HASS  
Free Elective