

**Tufts University -- School of Engineering**  
**Class of 2020**  
**Bachelor of Science in Biomedical Engineering (BSBME)**  
**Degree Checklist**

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

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

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

<b>Introductory Mathematics &amp; Natural Sciences* (9 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>M/NS</b>
MATH 32			1
MATH 34 or 36			1
MATH 42			1
MATH 51			1
PHYS 11			1
PHYS 12			1
CHEM 1			1
CHEM 2			1
BIO 13			1

<b>Introductory First-Year Engineering* (2 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>E</b>
EN 1			1
ES 2			1

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

* No Pass/Fail
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<b>Foundation* (8 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>M/NS</b>	<b>E</b>
ES 3				1
ES 5				1
ES 7				1
ES 8 or 9				1
BIO 41			1	
Prob & Stats (a)				
BME 121 or BIO 115			1	
Found Elect (b)				

<b>Concentration* (12 Credits)</b>	<b>Term</b>	<b>Grade</b>	<b>M/NS</b>	<b>E</b>
<i>Required (6 Credits)</i>				
BME 50				1
BME 62				1
BME 100				1
BME 131				1
BME 153				1
BME 51 or 165				1
<i>Electives (4 Credits)</i>				
Conc Elect (c)				
Conc Elect (d)				
Conc Elect (e)				
Conc Elect (e,f)				
<i>Senior Capstone Project (2 Credits)</i>				
BME 7				1
BME 8				1

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

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

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

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

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

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

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

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

## **BSBME - Notes**

(a) BIO 132, MATH 161&162, ES 56, EE 24, BME 141, CD 140, PSY 31

(b) ES 8, ES 9, ES 10, CHEM 31, CHEM 32, CHEM 51

(c) BME 3&4, or any BME course

(d) BME 5&6, or BME 194-EDP (Engineering Design Process)

(e) Any BME course

(f) Use SIS - Must be course with attribute: SoE-Engineering, SoE-Mathematics, SoE-Natural Sciences

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

Use SIS - Must be courses with attribute: 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.

# BSBME

## Guidelines for Course Selection

### Fall – 1<sup>st</sup> Year

EN 1  
MATH 32  
PHY 11  
ENG 1

### Spring – 1<sup>st</sup> Year

ES 2  
MATH 34 or MATH 36  
PHY 12/CHEM 1  
HASS

### Fall – 2<sup>nd</sup> Year

MATH 42  
BIO 13  
CHEM 1/CHEM 2/PHY 12  
ES 5  
BME 50  
BME 3 (0.5)

### Spring – 2<sup>nd</sup> Year

MATH 51  
PHY 12/CHEM 2  
ES 7  
BME 4 (0.5) or Concentration Elect  
HASS

### Fall – 3<sup>rd</sup> Year

BIO 41  
ES 3  
ES 8  
BME 121  
BME 153  
BME 5 (0.5)

### Spring – 3<sup>rd</sup> Year

BME 62  
BME 100  
Foundation Elective  
BME 6 (0.5) or BME 194-EDP  
HASS

### Fall – 4<sup>th</sup> Year

BME 51 or 165  
BME 7  
Prob & Stat  
Concentration Elect  
HASS

### Spring – 4<sup>th</sup> Year

BME 131  
BME 8  
Concentration Elect  
HASS  
Free-Elect