

**Tufts University -- School of Engineering**  
**Class of 2020**  
**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 34 or 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> |
|---|-------------|--------------|----------|
| EN 1  |             |              |          |
| ES 2  |             |              |          |

| <b>Humanity/Art/Social Sci (6 Credits) ( f )</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 (a,b)              |             |              |             |          |
| Found Elect (c)                |             |              |             |          |
| Found Elect (a,b,c,d,e)        |             |              |             |          |

| <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                                    |             |              |             |          |
| CHBE 21                                    |             |              |             |          |
| CHBE 22                                    |             |              |             |          |
| CHBE 39                                    |             |              |             |          |
| CHBE 45                                    |             |              |             |          |
| CHBE 51                                    |             |              |             |          |
| 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 ≥ 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: \_\_\_\_\_

## **BSCHE – Notes**

(a) Chemistry 32, 42, 52, 61, 132, 133, 135, 136, 141, 150, 151, 152, 155, 157, 161, 162, 163, 171, 172

(b) CHBE 121, 122, 140

(c) Biology BIO 14, 41, 46, 104, 105, 106, 134, 152,  
62 (CHBE 62), 162 (CHBE 162), 163 (CHBE 163), 168 (CHBE 168),  
BME 153 (CHBE 164)  
CHEM 171, 172

(d) Physics Use SIS - Must be PHY courses with attribute value: SoE – Natural Sciences

(e) Mathematics 70, 72, 151, 161, 162

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

Use SIS – 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)

EN 1  
MATH 32  
CHEM 1  
ENG 1

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

ES 2  
MATH 34 or 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 (5.0 Credits)

MATH 51  
CHBE 11  
ES 10  
CHBE 21  
HASS

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

CHEM 51  
CHEM 53 (0.5)  
CHBE 22  
CHBE 39  
ES 3

### Spring – 3<sup>rd</sup> Year (5.0 Credits)

Foundation Elective  
Foundation Elective  
CHBE 45  
CHBE 102  
HASS

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

CHBE 51  
CHBE 109  
Foundation Elective  
Conc. Elective  
HASS

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

CHBE 52  
CHBE 60  
Conc. Elective  
HASS  
Free Elective