

**Tufts University – School of Engineering**  
**Class of 2022**  
**Bachelor of Science in Data Science (BSDS)**  
**Degree Sheet**

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

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

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

Introductory*	Term	Grade
EN 1		
ES 2		
MATH 32		
MATH 34 or 39		
MATH 42 or 44		
MATH/COMP 61		
PHYS 11		
CHEM 1		
PHYS 12 or CHEM 2 or BIO 13		
Nat Sci Elect (a)		

Humanity/Art/Social Science (b)	Term	Grade
ENG 1* or 3		
H		
SS		
HASS Elect		
HASS Elect		
HASS Elect (if needed)		
HASS Elect (if needed)		
HASS Elect (if needed)		

Disciplinary Breadth (c) ≥ 9 SHUs	Term	Grade
Breadth Elect		
Breadth Elect		
Breadth Elect		

**\*No Pass/Fail**

Foundation*	Term	Grade
COMP 11		
COMP 15		
MATH 70 or 72		
Prob. & Stats (d)		
Ethics and Social Context: PHIL 24 or EM 54		

Concentration*	Term	Grade
<i>Required</i>		
COMP 40		
COMP 135		
COMP 136 or MATH 128		
COMP 160		
<i>Electives</i>		
DS Elect (e)		
DS Elect (f)		
DS Elect (g)		
DS Elect (e,f,g,h)		
DS Elect (e,f,g,h)		
<i>Senior Design Project</i>		
COMP 87		
COMP 88		

Free Elective ≥ 3 SHUs	Term	Grade
Free Elect		
Free Elect (if needed)		

Total Humanities and Social Sciences ≥ 18	
Total Math/Natural Science ≥ 30	
Overall Total ≥ 120	

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

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

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

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

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

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

## **BSDS - Notes**

(a) Natural Sciences:

Use SIS – Must be courses with attribute value: SoE-Natural Sciences.

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

Use SIS – Must be courses with attribute: SoE-HASS-Humanities, SoE-HASS-Arts, or SoE-HASS-Social Sciences.

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

(c) Disciplinary Breadth Electives:

The three Breadth electives may, with Program Director approval, be chosen from one of the targeted disciplines in Data Science, including Biology, Chemistry, Classics, Physics and others.

(d) Statistics: MATH 162, or EE 24 or 104.

(e) Data Science Systems elective:

One of COMP 112, 115, 116, 117, 118, 119 or special topics courses listed as COMP 51 or 151.

(f) Data Interface elective:

One of COMP 171, 175, 177, or special topics courses listed as COMP 52 or 152.

(g) Computational and Theoretical Aspects elective:

One of COMP 131; MATH 123; 126, 128; EE 109, 127, 130, 133, 140; or special topics courses listed as COMP 53 or 153.

(h) MATH 51, 63, 87, 151, 152, 155, 158, 161, 162. At most one course from COMP 93, 94, 191, 193, 194, and EE 93, 94, 95, 96, 191, 192; and at most one course from COMP 197 or EE 197.

# BSDS

## Guidelines for Course Selection

### Fall – 1<sup>st</sup> Year

MATH 32  
PHYS 11  
ENG 1  
Intro Engineering (EN) 1

### Spring – 1<sup>st</sup> Year

MATH 34 or 39  
COMP 11  
CHEM 1 or 16  
Engineering 2

### Fall – 2<sup>nd</sup> Year

MATH 42 or 44  
COMP 15  
COMP 61  
PHYS 12, CHEM 2, or BIO 13  
HASS Elect

### Spring – 2<sup>nd</sup> Year

MATH 70  
Engineering Management 54  
COMP 40  
Nat Sci Elect  
Free Elect

### Fall – 3<sup>rd</sup> Year

COMP 135  
DS Elect  
STATS (Electrical Engineering 24)  
Disciplinary Breadth Elect  
HASS Elect

### Spring – 3<sup>rd</sup> Year

COMP 160  
DS Elect  
Disciplinary Breadth Elect  
HASS Elect  
Free Elect

### Fall – 4<sup>th</sup> Year

COMP 87  
DS Elect  
DS Elect  
Disciplinary Breadth Elect  
HASS Elect

### Spring – 4<sup>th</sup> Year

COMP 88  
MATH 128  
DS Elect  
HASS Elect  
Free Elect