Tufts University – School of Engineering

Class of 2023

Bachelor of Science in Data Science (BSDS)

Degree Sheet

Student: _____ Advisor: _____

ID #: _____

Introductory*	Term	Grade
EN 1		
Elect (a)		
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 (b)		

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 (d) ≥ 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 (e)		
Ethics and Social Context: PHIL 24 or EM 54		

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

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

Total Humanities, Arts & Social Sciences ≥ 18	
Total Math/Natural Science ≥ 30	
Overall Total ≥ 120	

Student Signature: _____ Date: _____

Advisor Signature: _____ Date: _____

ABET Program Director Signature: _____ Date: _____

Matriculation Date: September 2019

BSDS - Notes

(a) ES 2 or course with attribute value SoE-engineering

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

(c) Humanities/Arts/Social Sciences (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.

(d) 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.

(e) Statistics: MATH 166, or EE 24 or 104.

(f) Data Science Infrastructure and Systems elective:
One of COMP 112, 115, 116, 117, 118, 119 or special topics courses listed as COMP 51 or 151.

(g) Data Analysis Interfaces elective:
One of COMP 171, 175, 177, or special topics courses listed as COMP 52 or 152.

(h) Computational and Theoretical Aspects elective:
One of COMP 131, 136, 137, 138, 160; MATH 123, 125, 126; EE 109, 127, 130, 133, 140; or special topics courses listed as COMP 53 or 153.

(i) MATH 51, 63, 87, 133, 153, 155, 156, 165, 166, CEE 187, ME 150. 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 – 1st Year
MATH 32
PHYS 11
ENG 1
Intro Engineering (EN) 1

Spring – 1st Year
MATH 34 or 39
COMP 11
CHEM 1 or 16
ES 2 or Elective

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

Spring – 2nd Year
MATH 70 or 72
Engineering Management 54/Ethics
COMP 40
Nat Sci Elect
Free Elect

Fall – 3rd Year
COMP 135
DS Elect
STATS (Electrical Engineering 24)
Disciplinary Breadth Elect
HASS Elect

Spring – 3rd Year
COMP 160
DS Elect
Disciplinary Breadth Elect
HASS Elect
Free Elect

Fall – 4th Year
COMP 87
DS Elect
DS Elect
Disciplinary Breadth Elect
HASS Elect

Spring – 4th Year
COMP 88
MATH 126
DS Elect
HASS Elect
Free Elect

Matriculation Date: September 2019