

Tufts University – School of Engineering

Class of 2022

Bachelor of Science from the School of Engineering – Human Factors Engineering (BSHFE)

Degree Sheet

Student: _____

Advisor: _____

ID #: _____

Introductory Mathematics & Natural Sciences*	Term	Grade
MATH 32		
MATH 34		
Mathematics (a)		
PHY 11		
Natural Science (b)		
Natural Science (b)		
ES 56 or PSY 31		

Introductory First-Year Engineering*	Term	Grade
EN 1		
ES 2		

Humanity/Art/Social Science (c)	Term	Grade
ENG 1* or 3		
PSY 1		
EM 52		
Humanities		
HASS Elective (c)		
HASS Elective (c)		

Domain Focus (d)*	Term	Grade
Domain Focus Elective (d)		
Domain Focus Elective (d)		
Domain Focus Elective (d)		
Domain Focus Elective (d)		
Domain Focus Elective (d)		

Foundation*	Term	Grade
ES 3 or ES 5		
ES 18 or ME 1 (e)		
COMP 11		
COMP 15 or COMP 20		

Concentration*	Term	Grade
ENP 53		
ENP 130		
ENP 64		
ENP 166 or COMP 171		
ENP 161		
ENP 120		
COMP or ENP Core Elective (f,g)		
ENP Core Elective (g)		
ENP Open Elective (h)		
Engineering Elective (i)		
PSY Elective (j)		
PSY Elective (j)		

Free Electives	Term	Grade
Free Elective		
Free Elective		

***No Pass/Fail**

Total Humanities, Arts & Social Sciences (HASS) ≥ 18	
Overall Total ≥ 120	

Student Signature: _____

Date: _____

Advisor Signature: _____

Date: _____

BSHFE - Notes

(a) Mathematics:

Use SIS – Must be courses with attribute value: SoE-Mathematics

(b) Natural Science:

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

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

Use SIS – Must be courses with attribute: SoE-HASS

Courses selected must include a minimum of one in Humanities (H). In addition, at least two HASS courses must be taken in the same department.

(d) Domain Focus:

In keeping with the interdisciplinary and multidisciplinary nature of the field, students are encouraged to choose electives from among a wide array of fields. Your domain focus electives should be chosen to compliment your career objectives and prepare you to do human factors engineering within a specific domain. For example, if you are interested in doing HFE work in biomedical devices, then these electives might be in Biomedical Engineering, or in biology, medicine, and related areas.

- Courses may only be taken from the departments listed below.
- All courses must be at least 3 SHUs each.
- At least 2 courses must be 100 level.
- At least 2 courses must be from the same department.
- At least two courses must be outside of Engineering Psychology or Human Factors Engineering.

Art (including SMFA)

Art History

Anthropology

Biology

Biomedical Engineering

Chemical & Biological Engineering

Child Study & Human Development

Civil & Environmental Engineering

Community Health

Computer Science

Economics

Education

Electrical & Computer Engineering

Engineering Management

Engineering Science

Entrepreneurial Leadership Studies

Linguistics

Mathematics

Mechanical Engineering

Music

Occupational Therapy

Peace & Justice Studies

Political Science

Psychology

Sociology

Science, Technology & Society

Urban & Environmental Planning

(e) ME 1 Pre-requisites and Co-requisites:

ME 1 may be taken only if you have taken ES5 and ES9. ES 9 may be taken concurrently with ME 1.

(f) COMP Elective:

Any course in Computer Science beyond COMP 11.

(g) ENP Core Elective:

May be chosen from the following: ENP-0109, ENP-0110, ENP-0112, ENP-0114, ENP-0162, ENP-0163, ENP-0164

(h) ENP Open Elective:

Any course in Engineering Psychology (ENP)

(i) Engineering Elective:

Any course in School of Engineering – students are encouraged to explore opportunities among the various departments in the SOE (including COMP and ENP courses).

Use SIS - Must be courses with attribute value: SoE-Engineering

(j) PSY Elective:

Any course in Psychology (PSY)

BSHFE

Guidelines for Course Selection

Fall – 1st Year

EN 1
MATH 32
PHY 11
ENG 1

Fall – 2nd Year

COMP 11
ENP 53
ES 3 or ES 5
Mathematics (a)
Natural Science (b)

Fall – 3rd Year

COMP or ENP Core Elective (f,g)
Domain Focus Elective (d)
EM 52
Engineering Elective (i)
PSY Elective (j)

Fall – 4th Year

Domain Focus Elective (d)
ENP 120 (no credit)
ENP Core Elective (g)
HASS Elective (c)
PSY Elective (j)
Free Elective

Spring – 1st Year

ES 2
MATH 34
Natural Science (b)
PSY 1

Spring – 2nd Year

COMP 15 or COMP 20
ENP 64
ENP 130
ES 56 or PSY 31
HASS Elective (c)

Spring – 3rd Year

Domain Focus Elective (d)
ES 18 or ME 1 (e)
ENP 161
ENP 166 or COMP 171
HASS Elective (c)

Spring – 4th Year

Domain Focus Elective (d)
Domain Focus Elective (d)
ENP 120
ENP Open Elective (h)
Free Elective