Neural Engineering Curriculum Map

Suggested Sequence by Semester

Fall Year 1 (18 hrs)	Spring Year 1 (18 hrs)	Fall Year 2 (18 hrs)	Spring Year 2 (16 hrs)	Fall Year 3 (12 hrs)	Spring Year 3 (15 hrs)	Fall Year 4 (15 hrs)	Spring Year 4 (16 hrs)
MATH 221 (4) Calculus I	MATH 231 (3) Calculus II	MATH 241 (4) Calculus III	MATH 285 (3) Intro Diff Eq	NE 330 (3) Neuroscience for Engineers	NE 420 (3) Neural Interface Eng	NE 412 (3) Neural Data Analysis	NE 402 (4) Neural Eng Senior Design
ENG 100 (1) Engineering Lecture	PHYS 211 (4) Univ Physics, Mechanics	PHYS 212 (4) Univ Physics, Elec & Mag	CHEM 232 (4) Organic Chemistry I	NE 410 (3) Neural Circuits & Systems	NE 422 (3) Intro to Neuroimaging	NE 430 (3) Neural Cell & Tissue Eng	Neural Eng Tech Elec (3)
NE 100 (2) Intro to Neural Engineering	CHEM 102 (3) General Chemistry I	CHEM 104 (3) General Chemistry II	BIOE 205 (3) Systems in Bioengineering	Neural Eng Tech Elec (3)	Neural Eng Tech Elec (3)	NE 431 (4) Neural Cell & Tissue Eng Lab	GenEd Elec (3)
RHET 105 (4) Principles of Composition	CHEM 103 (1) General Chem Lab I	CHEM 105 (1) General Chem Lab II	BIOE 310 (3) Comp Tools for Bio Data	GenEd Elec (3)	Free Elec (3)	Neural Eng Tech Elec (3)	Free Elec (3)
CS 101 (3) Intro to Comp	PSYC 100 (4) Introductory Psychology	BIOE 210 (3) Linear Algebra for Biomedical Data Science	MCB 252 (3) Cells, Tissue, & Development		GenEd Elec (3)	Free Elec (2)	Free Elec (3)
MCB 150 (4) Molec & Cellular Basis of Life	GenEd Elec (3)	MCB 250 (3) Molecular Genetics					

Note – not taking courses as advised may result in a delayed graduation date.
Students are responsible for any impact resulting from not following departmental advising.

General Education Requirements	
❑ 6 hours in Humanities ❑ 6 hours in Social/Behavioral Sciences ❑ 1 Advanced Composition Course ❑ Language Other Than English	❑1 Western Comparative Cultures Course ❑1 Non-Western Comparative Cultures Course ❑1 US Minority Cultures Course