

SUGGESTED TIMETABLE
BIOENGINEERING CLASS MATRICULATING IN 2019 AND FOLLOWING
Freshman Year

Credits	Fall Semester [F]	Spring Semester [S]
6	MATH 101 or MATH 105 Single Variable Calculus I	MATH 102 or MATH 106 Single Variable Calculus II
	PHYS 101 (or PHYS 125) Mechanics with Laboratory	PHYS 102 (or PHYS 126) Electricity and Magnetism with Lab
8	CHEM 121 (with CHEM 123) General Chemistry I with Lab	CHEM 122 (with CHEM 124) General Chemistry II with Lab
3	CAAM 210 [F, S] Introduction to Engineering Computation	
3	FWIS [F,S] First Year Writing Intensive Seminar	
6	Electives	Electives
34	Total credits for freshman year	

Sophomore Year

Credits	Fall Semester [F]	Spring Semester [S]
6	MATH 211 ODE's and Linear Algebra	MATH 212 Multivariable Calculus
6	CHEM 211 Organic Chemistry	BIOE 391 Numerical Methods
7	BIOC 201 Introductory Biology	ELEC 243 Introduction to Electronics
7	BIOE 252 Bioengineering Fundamentals	BIOE 322 Systems Physiology
1		BIOE 320 Systems Physiology Laboratory
1	BIOE 440 [F,S] or BIOE 439 [S] (BIOE 439 is the option for pre-meds) Statistics for Bioengineers	
6	Electives	Electives
34	Total credits for sophomore year	

SUGGESTED TIMETABLE

BIOENGINEERING CLASS MATRICULATING IN 2016 AND FOLLOWING

Junior Year

Credits	Fall Semester [F]	Spring Semester [S]
6	BIOC 341 or BIOE 341 Cell Biology	BIOE 330 Bioreaction Engineering
6	Mech 202 [F] Mechanics/Statics	BIOE 372 Biomechanics
6	BIOE 383 Biomedical Engineering Instrumentation	BIOE 332 Thermodynamics
2	BIOE 385 Biomedical Eng. Instrumentation Lab.	BIOE 342 Tissue Culture Laboratory
3	BIOE 370 Biomaterials	
9	Electives	Electives
32	Total credits for junior year	

Senior Year

Credits	Fall Semester [F]	Spring Semester [S]
2	Two of the following Advanced Bioengineering Labs: BIOE 442 [F], BIOE 443 [F], BIOE 444 [F, S], BIOE 445 [F], BIOE 446 [S], BIOE 447 [F, S], BIOE 449 [F] (Note that different labs are offered in different years.)	
7	BIOE 451 Bioengineering Design I	BIOE 452 Bioengineering Design II
6	BIOE 420 Biosystems Transport and Reaction Processes	BIOE technical elective
6	BIOE technical elective	BIOE technical elective
10	Electives	Electives
31	Total credits for senior year	

NOTE: Premedical students need to take additional biology and organic chemistry courses to satisfy pre-medical requirements. Consult Health Professions Advising (<https://oaa.rice.edu/specialized-advising/pre-health-professions>) for details.