

**RICE UNIVERSITY**  
**Department of Bioengineering**

Non-thesis Degree: **B.S. in Bioengineering** 134 hours; normally 4 years

The following table indicates the B.S. requirements for a degree in Bioengineering. Electives may be chosen from the *General Announcements* catalog as long as all the requirements are satisfied.

**Suggested Timetable**

**Credits Courses**

<b><i>Freshman Year</i></b>	
3	CAAM 210
8	CHEM 121, 122
6	MATH 101, 102
7	PHYS 101, 102 [or 125,126]
<u>9</u>	Elective(s)
33	Total credits for freshman year
<b><i>Sophomore Year</i></b>	
3	BIOS 201
8	CHEM 211, 212, 215
3	MECH 211
6	MATH 211, 212
3	BIOE 252
4	BIOE 320, BIOE 322
<u>6</u>	Elective(s)
33	Total credits for sophomore year
<b><i>Junior Year</i></b>	
6	BIOS 301, 341
1	BIOS 311 [or BIOS 312]*
6	BIOE 383, BIOE 391
6	BIOE 332, BIOE 372
1	BIOE 342
3	BIOE Track Electives
<u>12</u>	Elective(s)
35	Total credits for junior year
<b><i>Senior Year</i></b>	
2	BIOE Advanced Labs
6	BIOE 451, BIOE 452
3	BIOE 420
9	BIOE Track Elective
<u>13</u>	Elective(s)
33	Total credits for senior year

***Core Courses, Bioengineering***

- Bioengineering Fundamentals (BIOE 252)
- Systems Physiology and Lab (BIOE 322, BIOE 320)
- Thermodynamics (BIOE 332)
- Intro Biomechanics/Biomaterials (BIOE 372)
- Biomedical Engineering Instrumentation and Analysis (BIOE 383)
- Numerical Methods and Statistics (BIOE 391)
- Biosystems Transport (BIOE 420)
- Bioengineering Labs (BIOE 342, two of the following: BIOE 442, 443, 444, 445)\*
- Bioengineering Design (BIOE 451, BIOE 452)

***Specialization Tracks***

Four Bioengineering track elective courses, at least two of which must be at the senior level, will be required in one of the three tracks:

- Cellular and Molecular Engineering
- Bioinstrumentation, Imaging, & Optics
- Biomaterials and Biomechanics

***Undergraduate Committee***

Dr. Bahman Anvari  
 Dr. Michael Liebschner  
 Dr. Ka-Yiu San, Chair  
 Dr. Ann Saterbak

<http://dacnet.rice.edu/~bioe/>  
*General Announcements*  
<http://www.ruf.rice.edu/~catalog/>

\* BIOS and BIOE lab requirements and scheduling subject to change.