The terms indicated are courses of instruction for the School of Engineering. Programs offered by the School of Engineering include:

- Biomedical/Mechanical Engineering
- Biomedical/Electrical Engineering
- Biomedical Engineering (Biochemical)
- Biomedical Engineering

Programs Available

- Bachelor of Science in Biomedical Engineering (BME)
- Bachelor of Science in Biomedical Engineering (BME) with minor
- Bachelor of Science in Biomedical Engineering (BME) with minor in mathematics

Courses of instruction include:

1. Introduction to Biomedical Engineering (3, Fa)
2. Biomedical Instrumentation (4, Sp)
3. Biomedical Computer Simulation (3, Fa)
4. Biomedical Engineering Industrial Project (3, Sp)
5. Biomedical Engineering Internship (101, Prac)
6. Biomedical Engineering Internship (102, Prac)

Additional courses are available for advanced studies in engineering. For more information, contact the School of Engineering or visit their website.
29

414 Rehabilitation Engineering (3, Fa)
An introduction to rehabilitation technology: limb and spinal orthoses; limb prostheses; functional electrical stimulation; sensory aids.
Recommended preparation: AME 201 or AME 203.

416 Development and Regulation of Medical Products (3, Sp)
Introduction to the process of medical product development with emphasis on the regulations that govern the design, fabrication, and maintenance of medical products. Junior standing. Departmental approval required.

423 Statistical Methods in Biomedical Engineering (3, Fa)
Applications of parametric and non-parametric tests, analysis of variance, linear regression, time-series analysis, and autoregressive modeling, with biomedical applications to statistical analysis of biomedical data.
Prerequisite: BME 210.

425 Basics of Biomedical Imaging (3, Fa)
Basic scientific principles of various biomedical imaging modalities including nuclear magnetic resonance, X-ray computed tomography, single photon and positron emission tomography, ultrasonic imaging, and biomagnetism.
Prerequisite: PHYS 153L.

480 Senior Design for Biomedical Engineers (3, Fa)
Engineering design principles applied to biomedical systems; design and implementation of a biomedical hardware and software project; presentation and demonstration.
Prerequisite: BME 405L.

489 Biochemical Engineering (3, Sp)
(Enroll in CHE 489)

490x Directed Research (2-8, max 8)
Individual research and readings. Not available for graduate credit.
Prerequisite: departmental approval.

499 Special Topics (2-4, max 8)
Current trends and developments in the field of biomedical engineering.

GRADUATE COURSES

501 Advanced Topics in Biomedical Systems (4, Sp)

502 Advanced Studies of the Nervous System (4, Sp)

511 Physiological Control Systems (3, Fa)

513 Signal and Systems Analysis (3, Fa)

515 Measurement and Processing of Biological Signals (3, Sp)

523 Measurement and Processing of Biomedical Signals (3, Sp)

525 Advanced Biomedical Imaging (4, Sp)

527 Introduction to Teleradiology and Multimedia Technologies (3, Sp)

528 Medical Diagnostics, Therapeutics and Informatics Applications (3, Sp)

533 Seminar in Biomedical Engineering (3, Sp)

540x Directed Research (2-8, max 8)

590 Directed Research (1-12)

591ab Mathematical Biophysics (a: 3, Fa; b: 3, Sp)

594abcdz Doctoral Dissertation (2-2-2-2-0)

599 Special Topics (2-4, max 9)

605abL Experimental Projects in Biomedical Engineering (3-3, FaSp)

619 Modeling and Simulation of Biomedical Measurement and Instrumentation (3, Sp)

620 Applied Electrophysiology (3, Fa)

622 Advanced Topics in Biomedical Engineering (2-3, Fa)

650 Introduction to Biomedical Engineering (3, Sp)

699 Special Topics (2-4, max 9)

700 Research (1-2, Fa)

794 Directed Research (1-12)

795 Thesis (3, Fa)

796 Directed Research (1-12)

798 Seminar in Biomedical Engineering (3, Sp)

799 Thesis (3, Fa)

840 Experimental Projects in Biomedical Engineering (3-3, FaSp)

866 Introduction to Biomedical Engineering (3, Sp)

889 Directed Research (1-12)

901 Directed Research (1-12)

902 Directed Research (1-12)

903 Directed Research (1-12)

904 Directed Research (1-12)

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999 Directed Research (1-12)
Biomedical Engineering (128 units)

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**Concurrent enrollment in a Social Issues GE Course is required.**

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**KEY:**
- prerequisite
- co-requisite
- **<concurrent enrollment>>**

*Advanced students with departmental approval may complete CHEM 115aL in place of CHEM 105aL.*

**Pre-Med Students are encouraged to take WRIT 340 for Pre-Health Majors.**

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**See department for a list of approved technical electives.**
biomedical (biochemical) (128 units)

Mathematics (16 units)
- MATH 125: Calculus I
- MATH 126: Calculus II
- MATH 226: Calculus III
- MATH 245: Mathematics of Phys. and Engr.

Physics (8 units)
- PHYS 151L: Mechanics and Thermodynamics
- PHYS 152L: Electricity and Magnetism

Chemistry (12-16 units)
- CHEM 105aL: General Chemistry
- CHEM 105bL: General Chemistry
- CHEM 322aL: Organic Chemistry
- CHEM 322bL: Organic Chemistry
  (or
  CHEM 350: Intro. to Separation Processes)

Biology (24 units)
- BISC 120L: Organismal Biology & Evolution
- BISC 220L: Cell Biology & Physiology
- BISC 300L: Introduction to Microbiology
- BISC 320L: Molecular Biology
- BISC 330L: Biochemistry
- BISC 478: Computational Genome Analysis

General Education (28 units)
- WRIT 140: Writing and Critical Reasoning
- WRIT 340: Advanced Writing
- GE Cat. I
- GE Cat. II
- GE Cat. IV
- GE Cat. V
- GE Cat. VI

Engineering (36-40 units)
- BME 101: Intro. to Biomedical Engineering
- BME 302L: Medical Electronics
- BME 402: Control & Comm. in Nervous Sys.
- BME 403: Physiological Systems
- BME 410: Introduction to Biomaterials
- BME 423: Statistical Methods in BME
- CHE 330: Chemical Engr. Thermodynamics
- CHE 350**: Intro. to Separation Processes
- CHE 489: Biochemical Engineering
- CSCI 101L: Fund. of Comp. Programming
- EE 202L: Linear Circuits

* Advanced students with departmental approval have the option of completing CHEM 115abL in place of CHEM 105abL.
** Students can elect to take either CHEM 322bL or CHE 350, and will therefore determine the total unit count for Chemistry Courses (16-20) and Engineering (36-40).
*** Concurrent enrollment in a Social Issues GE Course is required.
**** Pre-Med students are encouraged to take WRIT 340 for Pre-Health Majors.
***** May take Category I, II, IV or VI GE class.

KEY: prerequisite [co-requisite] <<concurrent enrollment>>
biomedical / electrical (136 units)

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**Mathematics (20 units)**
- MATH 125 Calculus I
- MATH 126 Calculus II
- MATH 226 Calculus III
- MATH 245 Mathematics of Phys. and Engr. I
- MATH 445 Mathematics of Phys. and Engr II

**Physics (12 units)**
- PHYS 151L Mechanics and Thermodynamics
- PHYS 152L Electricity and Magnetism
- PHYS 153L Optics and Modern Physics

**Chemistry (12 units)**
- CHEM 105aL* General Chemistry
- CHEM 105bL* General Chemistry
- CHEM 322aL Organic Chemistry

**Biology (12 units)**
- BISC 120L Organismal Biology & Evolution
- BISC 220L Cell Biology & Physiology
- BISC 320L Molecular Biology

**General Education (27 units)**
- WRIT 140** Writing and Critical Reasoning
- WRIT 340 Advanced Writing
- GE Cat. I
- GE Cat. II
- GE Cat. IV***
- GE Cat. V
- GE Cat. VI

**Engineering (53 units)**
- BME 101 Intro. to Biomedical Engineering
- BME 210 Biomed. Comp. Simulation Methods
- BME 402 Control & Comm. in Nerv. System
- BME 403 Physiological Systems
- BME 423 Statistical Methods in BME
- BME 425 Basics of Biomedical Imaging
- CSCI 101L Fund. of Comp. Programming
- EE 101 Introduction to Digital Logic
- EE 102L Introduction to Digital Circuits
- EE 202L Linear Circuits
- EE 301 Introduction to Linear Systems
- EE 330 Electromagnetics I
- EE 338 Physical Electronics
- EE 348L Electronic Circuits I
- EE 357 Basic Organization of Comp. Sys.
- EE 454L Introduction to Systems Design
- EE 478L Digital Electronic Circuit Design

**Technical Elective (see **** below)**

---

* Advanced students with departmental approval have the option of completing CHEM 115abL in place of CHEM 105abL.

** Concurrent enrollment in a Social Issues GE Course is required.

*** May take Category I, II, IV or VI GE class.

**** See department for a list of approved technical electives.
# Biomedical / Mechanical (133 units)

**Mathematics (16 units)**
- MATH 125 Calculus I
- MATH 126 Calculus II
- MATH 226 Calculus III
- MATH 245 Mathematics of Phys. and Engr.

**Physics (12 units)**
- PHYS 151L Mechanics and Thermodynamics
- PHYS 152L Electricity and Magnetism
- PHYS 153L Optics and Modern Physics

**Chemistry (12 units)**
- CHEM 105aL* General Chemistry
- CHEM 105bL* General Chemistry
- CHEM 322aL Organic Chemistry

**Biology (12 units)**
- BISC 120L Organismal Biology & Evolution
- BISC 220L Cell Biology & Physiology
- BISC 320L Molecular Biology

**General Education (27 units)**
- WRIT 140** Writing and Critical Reasoning
- WRIT 340 Advanced Writing
- GE Cat. I
- GE Cat. II
- GE Cat. IV***
- GE Cat. V
- GE Cat. VI

**Engineering (54 units)**
- AME 203 Mechanics I
- AME 205 Mechanics II
- AME 308 Comp.-Aid. Analysis for Design
- AME 310 Engineering Thermodynamics I
- AME 451 Linear Control Systems I
- BME 101 Intro. to Biomedical Engineering
- BME 210 Biomed. Comp. Simulation Methods
- BME 402 Control & Comm. in Nerv. System
- BME 403 Physiological Systems
- BME 404 Biomechanics
- BME 405L Senior Projects: Meas. and Instruments

* Advanced students with departmental approval have the option of completing CHEM 115abL in place of CHEM 105abL.

**Concurrent enrollment in a Social Issues GE Course is required.

*** May take Category I, II, IV or VI GE class.

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**Biomedical / Mechanical (133 units)**

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**KEY:** prerequisite [co-requisite] **<<concurrent enrollment>>**