



# Biomedical Engineering

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**The Biomedical Engineering program** synthesizes the course material found in computer, mechanical, and chemical engineering in order to create students that are equipped to design and manufacture chemical equipment in a professional environment. This program benefits from the variety of course material and the integration of faith, especially on hot topics of ethical practice in medical technology. Students in this program will also benefit from the use of Geneva's state-of-the-art lab equipment. Students leave this program prepared to excel as professionals in the field of biomedical engineering.



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# Biomedical Engineering

## Example 4-Year Plan\*

### YEAR 1

### YEAR 2

### YEAR 3

### YEAR 4

- Core
- Major
- Elective

#### FALL SEMESTER

**EGR 100**  
Calling and Vocation

**EGR 101/102**  
Intro to Engineering

**CHM 111**  
General College Chemistry

**MAT 161**  
Calculus I

**ENG 101**  
English Composition

**BIB 112**  
Old Testament Introduction

**MAT 265**  
Probability and Statistics

**EGR 211**  
Solid Mechanics

**BIO 225**  
Human Anat & Phys I

Computer Programming

**HUM 103**  
Invitation to Humanities

BME Concentration Requirements (6 credits)

**PHY 201**  
College Physics I

**BIB 300**  
Biblical Worldview

**HUM 303**  
Perspectives

BME Concentration Requirement (9 credits)

**EGR 401**  
Christian Ethics and Engg

**EGR 481**  
Senior Design Project

**POL 352**  
Great Issues in Politics

#### SPRING SEMESTER

**BIB 113**  
New Testament Introduction

**BIO 112**  
Intro Cellular Biology

**MAT 162**  
Calculus II

**CHM 221**  
Organic Chemistry I

**EGR 101/102**  
Intro to Engineering

**HUM 203**  
Making the West

Reason and Rhetoric Option

**EGR 212**  
Linear Circuit Analysis I

**BIO 326**  
Human Anat & Phys II

**MAT 405**  
Differential Equations

**PED 103**  
Physical Fitness

**ECO 270**  
Principles of Microeconomics

**EGR 330**  
Thermal Fluid Sciences

**BME 300**  
Intro Biomedical Engg

BME Concentration Requirement (4 credits)

Elective

Society Group B or C

**EGR 482**  
Senior Design Project

BME Concentration Requirements (10 credits)

**GENEVA  
COLLEGE**

**OFFICE OF ADMISSIONS**

3200 College Avenue  
Beaver Falls, PA 15010  
800.847.8255

\*Courses listed are examples and subject to change. Your class schedule will be developed with an advisor and may differ from what is listed above.