

Course Planning Specifics: Biomedical Engineering

Students considering biomedical engineering as a major are encouraged to fulfill their physics and chemistry requirements in their first year, and work toward the mathematics and humanities requirements. If you received AP credit for courses early in the MA, CH or PH sequence, you can start at the next course in the sequence. We generally advise postponing biology courses until the sophomore year. Biology courses at the 1000-level are generally not recommended unless students have no background in biology. [Click here](#) for the degree requirements for Biomedical Engineering.

[BME 1001](#) offered in B-Term, is particularly recommended for students wanting to gain a first, hands-on experience in biomedical engineering and the engineering design process. Lectures, demonstrations, and scientific literature readings will investigate biomedical engineering solutions to clinical and societal needs in healthcare. Students will also gain experience in computer aided drawing (CAD), 3D printing and prototyping as means to understanding solutions to these challenging needs.

Please note: For biomedical engineering majors, GPS courses with CH or BB credit can be used to fulfill the supplemental science distribution requirements. GPS courses with HU or SS credit will count toward those requirements. All other GPS credit will count toward free electives.

Pre-Med BME majors are STRONGLY advised to seek scheduling advice from Dr. Sakthikumar Ambady (sambady@wpi.edu) **BEFORE** the start of A-term to review their schedules for the first year. Pre-med BME students are also advised that taking a two-course GPS class will make completing both the pre-med and BME requirements in four years very difficult.

Example of a typical course schedule for your first two terms

<u>A term</u>	<u>B term</u>
CH1010 or PH1110/1111	CH1020 or PH1120/1121
HU/GPS	HU/GPS or BME1001
MA	MA
PE (optional)	PE (optional)

Course Planning Worksheet: Biomedical Engineering

Math Placement Test Result: _____ AP/IB/Transfer Credit: _____

Abbreviation Key for Course Planning Tracker:

- **HU**= Humanities Course (includes AB, AR, CN, EN, GN, HI, HU, INTL, ISE, MU, PY, RE, SP, TH, WR)
- **GPS** = Great Problems Seminar
- **BB** = Biology Course
- **PH**= Physics Course
- **CH**= Chemistry Course

Any courses marked with an asterisk (*) are optional programs, and can be taken in addition to the three courses.

Please Note: The Great Problems Seminars are a two term sequence course. They are also **linked**. This means that when registering for a GPS course in A term, you must register for its second half in B term.

<u>A Term Selections</u>		<u>B Term Selections</u>	
<u>(Include CRN)</u>		<u>(Include CRN)</u>	
Science (CH, PH)		Science (CH, PH)	
Math		Math	
HU, GPS, Other		HU, GPS, BME 1001	
*Physical Education (1/12 credit unit)		*Physical Education (1/12 credit unit)	
*Military Science (Must be affiliated with an ROTC unit)		*Military Science (Must be affiliated with an ROTC unit)	
Back-ups		Back-ups	