

## **Biological Engineering – with Pre-Medicine**

### Sample Study Program

#### Fall I

Math	1500	Calculus I	5
Chem	1320	General Chemistry I	4
Engr	1000	Exposition	3
Behavioral or Social Science**			<u>3</u>
			15

#### Fall II

BioE	2080	Programming for Engrs	3
Math	2300	Calculus III	3
Physics	2750	Univ. Physics I	5
Chem	2100	Organic Chemistry I	3
Engr	1200	Statics	<u>3</u>
			17

#### Fall III

BioEn	2180	Analysis of Bioprocesses	3
BioSc	2300	Cell Biology	4
Engr	2200	Strength of Materials	3
Fluid Mechanics			3
Statistics			3
Am. History or Am. Government (BSSS)			<u>3</u>
			19

#### Fall IV

*BioEn	4980	Biological Engr Design	3
BioEn		Technical Elective	3
BioEn		Technical Elective	3
BioEn		Technical Elective	3
BioEn		Technical Elective	3
Humanity or Fine Art			<u>3</u>
			18

#### Spring I

Engr	1100	Engineering Graphics	2
Math	1700	Calculus II	5
<b>Chem</b>	<b>1330</b>	<b>General Chemistry II</b>	<b>4</b>
Humanity or Fine Art			3
BioSc	1500	Intro to Biological Systems	<u>5</u>
			19

#### Spring II

*BioEn	2000	Professional Development	2
Math	4100	Differential Equations	3
Physics	2760	Univ. Physics II	5
<b>Chem</b>	<b>2110</b>	<b>Organic Chemistry II</b>	<b>3</b>
<b>Chem</b>	<b>2130</b>	<b>Organic Laboratory I</b>	<b>2</b>
BioSc	2200	Genetics	<u>4</u>
			19

#### Spring III

BioEn	3180	Heat & Mass Transfer	3
Engr	2300	Thermodynamics	3
<b>BioSc</b>	<b>3700</b>	<b>Animal Physiology</b>	<b>5</b>
<b>Biochem</b>	<b>4270</b>	<b>Biochemistry I</b>	<b>3</b>
<b>Phil</b>	<b>2440</b>	<b>Medical Ethics (HFA)</b>	<u><b>3</b></u>
			17

*Study for MCAT*

#### Spring IV

BioEn	4380	Electronic Instrumentation	4
BioEn		Technical Elective	3
BioEn		Technical Elective	3
BioEn		Technical Elective	3
BioEn		Technical Elective	3
Econ	1014	Microeconomics (BSSS)	<u>3</u>
			19

\* Offered only fall or only spring semester.

**Bold**-changes from non Pre-med BE program

\*\* Behavioral Science courses-Psych 1000 or Soc2200 highly recommended

**-Schedule an appointment with a Med Opp advisor 573-882-3893**

**-Email [MedOpp@missouri.edu](mailto:MedOpp@missouri.edu) for MedOpp Newsletter**

**-www.premed.missouri.edu**

