

# B.A. IN ENGINEERING

Code	Title	Credits
<b>Major in Engineering (B.A./B.S. Dual-Degree) <sup>4</sup></b>		
CHE 113 & CHE 113D	General Chemistry I and General Chemistry I Lab	4
COS 111	Introduction to Programming	4
ENR/PHY 260	Careers in Engineering and Physics Seminar	1
ENR 321	Statistical Methods in Engineering	2
ENR 352 & ENR 353	Computer Methods in Physics and Engineering and Computer Methods in Physics and Engineering Lab	4
MAT 124M	Calculus 1 <sup>3</sup>	4
MAT 125	Calculus 2	4
MAT 223	Multivariable Calculus	4
MAT 224	Differential Equations with Linear Algebra	4
PHY 292 & PHY 292D	General Physics I and General Physics I Lab	4
PHY 296 & PHY 297	General Physics II and General Physics II Lab	4
Choose 8 credits of electives from the following:		8
CHE 214 & CHE 215	General Chemistry II and General Chemistry II Lab <sup>2</sup>	
CHE 224 & CHE 225	Organic Chemistry I and Organic Chemistry I Lab <sup>2</sup>	
CHE 226 & CHE 227	Organic Chemistry II and Organic Chemistry II Lab <sup>2</sup>	
ENR 308	Statics and Mechanics of Materials	
ENR 422 & ENR 423	Fluid Mechanics and Fluid Mechanics Lab	
ENR 424 & ENR 425	Electronic Materials and Devices and Electronic Materials and Devices Laboratory <sup>5</sup>	
ENR 450	Topics in Physics and Engineering <sup>6</sup>	
PHY 302 & PHY 303	Electronics and Electronics Lab	
PHY 312 & PHY 313	Modern Physics and Modern Physics Lab	
PHY 340	Mechanics	
<b>Code</b>	<b>Title</b>	<b>Credits</b>
Major		47
General Education <sup>*</sup>		40-48
Electives <sup>1</sup>		27-35
<b>Total Credits</b>		<b>122</b>

<sup>1</sup> The additional studies taken at another school of engineering will fulfill the elective requirements for graduation from Bethel. All requirements for an engineering degree at another school of engineering must be complete to receive Bethel degree.

<sup>2</sup> Required for chemical engineering. CHE 344/CHE 345 and CHE 348 strongly recommended.

## *B.A. in Engineering 2*

- <sup>3</sup> Placement at MAT 124M on the Math and Computer Science department placement exam; MAT 121M, concurrent enrollment in MAT 122, or equivalent high school or college course(s) is a prerequisite for this course.
- <sup>4</sup> Degree must be completed at another school of engineering.
- <sup>5</sup> PHY 302/PHY 303 or PHY 312/PHY 313 is a prerequisite for this course.
- <sup>6</sup> Consent of instructor is a prerequisite for this course.
- \* Courses whose number is followed by a letter fulfill a General Education requirement. Students may not declare a B.A. in Engineering and a Minor in Engineering.