



## PRE-ENGINEERING MINOR

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The Pre-Engineering minor at Westminster is designed for students who wish to combine a liberal arts education with a career in engineering. A student completing the Pre-Engineering minor will earn credit for the courses necessary to complete the dual engineering program with Washington University in St. Louis, Missouri University of Science and Technology, or Southern Illinois University at Carbondale.

You can find the course descriptions for all courses required for this major by clicking on the following links:

- [Biology Course Descriptions](#)
- [Chemistry Course Descriptions](#)
- [Computer Science Course Descriptions](#)
- [Engineering Course Descriptions](#)
- [Physics Course Descriptions](#)
- [Mathematics Course Descriptions](#)

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Student's Last Name	First Name	Middle Initial
Advisor	Date Minor Declared	

Course #	Title of Course	Hours Required	Semester Completed	Grade
<b>Required Courses</b>				
EGR/PHY 101	Introduction to Engineering & Design	3		
CHM 114/115	General Chemistry I	4		
MAT 312	Differential Equations*	3		
PHY 212	Physics II	4		
	A capstone course at the engineering institution taken the last semester before graduation or an approved project in the form of an Independent Study course at Westminster College	1-3		
<b>Electives (choose two)</b>				
BIO 301	Genetics	4		
CHM 124/125	General Chemistry II	4		
CSC 211	Fundamentals of Computer Science II	3		
EGR/PHY 230	Engineering Mechanics-Statics	3		
MAT 215	Linear Algebra	3		
MAT 313	Mathematical Probability & Statistics	3		
PHY 328	Analogue Circuits	4		
<b>TOTAL HOURS FOR MINOR</b>		<b>21-25 hrs</b>		

*\*The prerequisites for MAT 312 are MAT 224, MAT 215, and CSC 104 all of which must be completed with a grade of C- or better before enrolling in MAT 312.*

If any substitutions or waivers of requirements are allowed, please list below and initial.

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