ENGINEERING PHYSICS Associate of Science (A.S.)

Effective Fall 2023

Requirements for the Major

Each candidate is required to complete the <u>University requirements for the A.S. degree</u> (see page 2) and the following courses:

Course Number	Course Title	Credit Hours	When Offered	
EG 103	Physics and Engineering Seminar I	1	Fall	
EG 250	Engineering Mechanics: Statics	3	Fall	
EG 303	Physics and Engineering Seminar II	1	Fall	
EG 351	Engineering Mechanics: Dynamics	3	Spring	
MA 151	Calculus and Analytic Geometry I	5	Fall/Spring	
MA 152	Calculus and Analytic Geometry II	5	Fall/Spring	
MA 253	Calculus and Analytic Geometry III	3	Fall/Spring	
PS 281	General Physics I	5	Spring	
PS 282	General Physics II	5	Fall	
One of the following:				
CH 151	Fundamentals of Chemistry I	5	Fall/Spring	
BI 102	General Cellular Biology	5	Fall/Spring	
Twelve credit he	ours from the following electives:			
BI 102	General Cellular Biology	5	Fall/Spring	
CH 151	Fundamentals of Chemistry I	5	Fall/Spring	
CH 152	Fundamentals of Chemistry II	5	Spring	
EG 116	Engineering Graphics	3	Spring	
EG 360	Mechanics of Materials	3	Spring	
MA 301	Linear Algebra	3	Fall	
MA 331	Differential Equations	3	Spring	
PS 3XX	Any 300 level PS course	1-3	Varies	

University Requirements for the Associate of Science Degree

- Minimum of 60 credit hours, 42 of which must be graded.
- ▶ At least 15 of the last 30 credit hours must be completed at Washburn University.
- 3 credit hours of English composition (EN 101).
- 3 credit hours of mathematics (MA 116 or higher).
- 3 credit hours of The Washburn Experience (WU 101).
- ▶ 18 credit hours of General Education electives:
 - ♦ At least 6 credit hours in Humanities (CN 150 Public Speaking (3) recommended)
 - ♦ At least 6 credit hours in Natural Sciences, Mathematics and Statistics (fulfilled with CH 151 & MA 151)
 - ◆ At least 6 credit hours in Social Sciences (EC 100 Introduction to Economics (3) recommended)

In each general education group, courses taken must be in at least two subject areas.

Humanities	Natural Sciences, Mathematics and Statistics	Social Sciences		
 English (excluding EN 100, 101, 102, 200, 300) Art Communication Mass Media Modern Languages Music Philosophy Religion Theatre 	CH 151 Chemistry I MA 151 Calculus I	 Anthropology Economics Geography History Political Science Psychology Sociology 		
Please consult the University Catalog for approved general education courses				

Cumulative grade point average of at least 2.0 and a grade of C or better in each course in the major, EN 101, and WU 101.

Please direct questions to:

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