

2028 Academic Planning Form: PRE-ENGINEERING B.S.

5/31/2024

1st course(s) recommended for Pre- Engineering B.S. (3+2 Program) - EPS 101 and/or 131, MTH 131, ECN 101

	Fall Semester	# of Credits	Spring Semester	# of Credits	Total Year Credits
1st Year	DWC 101 (4 credit hrs; Honors 5 credit hrs)	4	DWC 102 (4 credit hrs; Honors 5 credits hrs)	4	
	MTH 131 Calc & Analytical Geometry I (Quantitative Reasoning Core)	4	MTH 132 Calc & Analytical Geometry II	4	
	EPS 101 General Physics I w/ Lab	4	EPS 102 General Physics II w/ Lab	4	
	EPS 131 Intro to Engineering	1	Core	3	
	ECN 101 Principles of Micro Econ (required by affiliate schools) (Social Science Core)	3	Core	3	
		16		18	
2nd Year	DWC 201 (4 credit hrs; Honors 5 credit hrs)	4	DWC 202 (4 credit hrs; Honors 5 credits hrs)	4	
	EPS 201 Intro Modern Physics w/ Lab (Oral Communication Proficiency)	4	EPS 301 Mechanics	3	
	MTH 223 Calc & Analytical Geometry III	4	MTH 304 Differential Equations	3	
	Core	3	Core	3	
	Core	3	Core/Free Elective	3	
		18		16	
3rd Year	MTH 318 Topics in Applied Mathematics	3	EPS 202 Electronic Devices with Lab (Intensive Writing II Proficiency)	4	
	EPS 221 Scientific Programming	3	EPS 430 Thermodynamics	3	
	CHM 101 General Chemistry I w/ Lab (or CHM 121) (Natural Science Core)	4	CHM 102 General Chemistry II w/ Lab (or CHM 122)	4	
	Core	3	Core	3	
	Core	3	Core/Free Elective	3	
		16		17	
4th Year		0		0	0
Graduation Requirement includes a minimum of 120 credit hours			Total Program of Study Credits		101

The EPS Majors' curriculum fulfills the Quantitative Reasoning, Social Science and Natural Science Cores; the Intensive Writing II and Oral Communication Proficiencies; Note that each Engineering subfield (e.g. Biomedical, Civil, Mechanical, Chemical, etc.) may require additional courses beginning in the second year of study.

Core requirements include a foundational component and satisfaction of all proficiencies.

Foundational Component:

- DWC - 4 semester sequence, 16-20 cr.
- Theology (200 & 300 level) - 6 cr.
- Philosophy (1 Ethics) - 6 cr.
- Natural Science - 3 cr. (**CHM 101**)
- Social Science - 3 cr. (**ECN 101**)
- Quantitative Reasoning - 3 cr. (**MTH 131**)
- Fine Arts - 3 cr.

Proficiencies:

- Intensive Writing - I
- Intensive Writing - II (**EPS 202**)
- Diversity
- Civic Engagement
- Oral Proficiency (**EPS 201**)

Major Requirements (EPS Courses):

- | | |
|---|---|
| <ul style="list-style-type: none"> • EPS 101, 102, 131, 201, 202, 221, 222, 301, 430 • CHM 101-102 (or 121-122) | <ul style="list-style-type: none"> • MTH 131-132, 223, 304, 318 • ECN 101 (required by affiliate schools) |
|---|---|