

2025 Academic Planning Form: ENGINEERING-PHYSICS-SYSTEMS

6/1/2021

1st course(s) recommended for Engineering-Physics-Systems 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
<b>1<sup>st</sup> Year</b>	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 ( <b>Quantitative Reasoning Core</b> )	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	Fine Arts Core	3	
	ECN 101 Principles of Micro Econ (required by affiliate schools) (Social Science Core)	3	Intensive Writing I Proficiency	3	
		<b>16</b>		<b>18</b>	<b>34</b>
<b>2<sup>nd</sup> Year</b>	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 ( <b>Oral Communication Proficiency</b> )	4	EPS 301 Mechanics	3	
	MTH 223 Calc & Analytical Geometry III	4	MTH 304 Differential Equations	3	
	Philosophy Core	3	Theology (200 Level) Core	3	
	Diversity Proficiency	3	Free Elective	3	
		<b>18</b>		<b>16</b>	<b>34</b>
<b>3<sup>rd</sup> Year</b>	MTH 318 Topics in Applied Mathematics	3	EPS 202 Electronic Devices with Lab ( <b>Intensive Writing II Proficiency</b> )	4	
	EPS 221 Scientific Programming	3	EPS 430 Thermodynamics	3	
	CHM 101 General Chemistry I w/ Lab (or CHM 121) ( <b>Natural Science Core</b> )	4	CHM 102 General Chemistry II w/ Lab (or CHM 122)	4	
	Ethics Core	3	Civic Engagement Proficiency	3	
	Theology (300 Level) Core	3	Free Elective	3	
		<b>16</b>		<b>17</b>	<b>33</b>
<b>4<sup>th</sup> Year</b>					
		<b>0</b>		<b>0</b>	<b>0</b>
<b>*Graduation Requirement includes a minimum of 120 credit hours*</b>			<b>Total Program of Study Credits</b>		<b>101</b>
<p><i>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.</i></p>					
<b>Core requirements include a foundational component and satisfaction of all proficiencies.</b>					
<b>Foundational Component:</b>			<b>Proficiencies:</b>		
<ul style="list-style-type: none"> <li>• DWC - 4 semester sequence, 16-20 cr.</li> <li>• Theology (200 &amp; 300 level) - 6 cr.</li> <li>• Philosophy (1 Ethics) - 6 cr.</li> <li>• Natural Science - 3 cr. (<b>CHM 101</b>)</li> <li>• Social Science - 3 cr. (<b>ECN 101</b>)</li> <li>• Quantitative Reasoning - 3 cr. (<b>MTH 131</b>)</li> <li>• Fine Arts - 3 cr.</li> </ul>			<ul style="list-style-type: none"> <li>• Intensive Writing - I</li> <li>• Intensive Writing - II (<b>EPS 202</b>)</li> <li>• Diversity</li> <li>• Civic Engagement</li> <li>• Oral Proficiency (<b>EPS 201</b>)</li> </ul>		
<b>Major Requirements (EPS Courses):</b>					
<ul style="list-style-type: none"> <li>• EPS 101, 102, 131, 201, 202, 221, 222, 301, 430</li> <li>• CHM 101-102 (or 121-122)</li> </ul>			<ul style="list-style-type: none"> <li>• MTH 131-132, 223, 304, 318</li> <li>• ECN 101 (required by affiliate schools)</li> </ul>		