

2027 Academic Planning Form: PHYSICS/SECONDARY EDUCATION B.A.

5/18/2023

1st course(s) recommended for Applied Physics (Engineering-Physics Systems)/Secondary Education B.A. - EPS 101 and/or 131, MTH 131

	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 cr, taken as 5th course)	1	Core	3	
	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	
	MTH 223 Calculus III	4	MTH 304 Differential Equations	3	
	EPS 201 Intro. Modern Physics w/ lab (Oral Communication Proficiency)	4	EPS 301 Mechanics	3	
	EDU 201 Educational Psychology (Social Science Core)	3	EDU 206 & 206L Principles of Sec. Ed. w/ Lab	4	
	Core	3	Core	4	
		18		18	
3rd Year	MTH 318 Topics in Applied Mathematics	3	EPS 202 Electronics w/ 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	
	EDU 401 & 401L Educational Measurement w/ Lab	4	EDU 303 & 303L Child with Special Needs in Regular Class w/ Lab	4	
	Core	3	Core/Free Elective	3	
		17		18	
4th Year	*EPS 401 Classical Dynamics	3	EDU 450 Student Teach in Sec. School (Oral Communication Proficiency)	9	
	**EDU 412 & 412L Teach Sci. in Sec. Schools	4	EDU 301 Foundations of Education (Civic Engagement Proficiency)	3	
	Core/Free Elective	3	EDU 449 Classroom Management (1 cr.)	1	
	Core/Free Elective	3			
	Core/Free Elective	3			
		16		13	
Graduation Requirement includes a minimum of 120 credit hours			Total Program of Study Credits		134
**Currently, PHYE Majors fulfill the Natural Science, Social Science and Quantitative Reasoning Cores; the Intensive Writing II and Oral Communication Proficiencies. Note: Secondary Education majors have a two step process to declare, including a basic skills test mandated by the Rhode Island Department of Education and a cumulative GPA of at least					
Core requirements include a foundational component and satisfaction of all proficiencies.					
Foundational Component:			Proficiencies:		
<ul style="list-style-type: none"> • DWC - 4 semester sequence, 16-20 cr. • Theology (200 & 300 level) - 6 cr. • Philosophy (1 Ethics) - 6 cr. • Natural Science - 3 cr. (CHM 101 OR CHM 121) • Social Science - 3 cr. (EDU 201) • Quantitative Reasoning - 3 cr. (MTH 131) • Fine Arts - 3 cr. 			<ul style="list-style-type: none"> • Intensive Writing - I • Intensive Writing - II (EPS 202) • Diversity (EDU 211 suggested) • Civic Engagement (EDU 301) • Oral Proficiency ((EPS 201, EDU 450)) 		
Major Requirements (PHYE Courses):					
<ul style="list-style-type: none"> • EPS 101, 102, 131, 201, 202, 221, 222, 301, 401, 430 • MTH 131, 132, 223, 304, 417 • CHM 101-102 (or 121-122) 			<ul style="list-style-type: none"> • EDU 201, 206, 206L, 301, 303, 303L, 401, 401L, 412**, 412L, 449, 450 • *EPS 401 is offered in Fall. • **EDU 412 is offered in Fall of even years. 		