

Physics Bachelor of Science Major/Pre-Professional Secondary Education Minor Suggested Academic Plan

Use the Physics Endorsement Requirements Checklist on the MSME Website for more information and guidance on course selection.

Year 1	Fall	Cr.	Spring	Cr.	Summer	Cr.
<i>Students must complete all Madison Foundations courses by end of first year.</i>	WRTC 103 (C1W)	3	MATH 236 (BS Quantitative Reasoning)	4	*Take ALEKS/Praxis Core Math	
	MATH 235 (C3QR)	4	PHYS 150/250	3	*Complete CPR/First Aid/AED	
	PHYS 140/240 (BS Scientific Literacy)	3	PHYS 150L/250L	1		
	PHYS 140L/240L	1	C1CT or C1HC	3		
	C1HC or C1CT	3	CHEM 131 (C3PP)	3		
	PHYS 105 (fall only)	1	CHEM 131L (C3L)	1		
<i>Attend a Teacher Education meeting in Nov/Dec.</i>						
	Total Credits	15	Total Credits	15	Total Credits	
Year 2	Fall	Cr.	Spring	Cr.	Summer	Cr.
	MATH 237	4	C5WD	3		
	PHYS 270 (fall only)	3	PHYS 260 (spring only)	3		
	PHYS 270L (fall only)	1	MATH 238 (pre-req to PHYS 340 & 350)	4		
	CHEM 132	3	PSYC 160 (C5SD)	3		
	CHEM 132L	1	MSSE 101	1		
	EDUC 200	3	PHYS 247 (spring only)	1		
	PHYS 106	1	*Be admitted to TE by 3/1.			
		Total Credits	16	Total Credits	15	Total Credits
Year 3	Fall	Cr.	Spring	Cr.	Summer	Cr.
<i>Enrollment in MSSE 370 and MSSE 371 requires admission to the Teacher Education Program and must be completed no later than spring of junior year.</i>	MSSE 210	3	MSSE 370	3	<i>MSSE 370, MSSE 371, and MSSE 210, must be completed before enrolling in MSSE 414, MSSE 415, and LED 440.</i>	
	PHYS 391 (fall only)	0	MSSE 371	1		
	PHYS 340 (fall only)	3	PHYS 392 (spring only)	1		
	BIO 140 (C3NS)	3	PHYS 350 (spring only)	3		
	BIO 140L	1	C2L	3		
	PHYS 344	1	GEOL 110	3		
	PHYS 345	1	GEOL 110L	1		
	Elective	3				
	Total Credits	15	Total Credits	15	Total Credits	
Year 4	Fall	Cr.	Spring	Cr.	Summer - GRAD	Cr.
<i>Apply to student teaching and to The Graduate School in fall of senior year. Apply to graduate undergrad by March of senior year.</i>	MSSE 414 (fall only)	3	PHYS 492 (spring only)	1	EDUC 540 (spring/summer)	3
	MSSE 415	3	C2VPA	3	EXED 512 (spring/summer)	3
	LED 440	3	C4GE	3	MSSE 607 (summer/fall)	3
	PHYS 491 (fall only)	0	Physics Research	2	MSSE 625 (spring/summer)	3
	PHYS 380 (fall only)	3	C2HQC	3		
	C4AE	4	PHYS 460	3	<i>*Passing score on Praxis SA required by August 15.</i>	
			*Attempt Praxis SA by 3/1.			
	Total Credits	16	Total Credits	15	Total Credits	12

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Year 5	Fall - GRAD	Cr.	Spring - GRAD	Cr.	Summer	Cr.
	MSSE 544 (fall only)	3	MSSE 650	3	<i>*Apply for Teaching License</i>	
	MSSE 549 (fall only)	3	MSSE 675 #1 (student teaching)	3		
	MSSE 620 (spring/fall)	3	MSSE 675 #2 (student teaching)	3		
	MSSE 630 (fall only)	3				
	<i>*Apply to graduate Graduate School</i>		<i>*graduate from Graduate School</i>			
	Total Credits	12	Total Credits	9	Total Credits	

Notes:

- The General Education area codes (C3PP, C2L, etc.) are used in this plan to minimize text. Please reference the General Education Planner found on the General Education website (www.jmu.edu/gened) for more information.
- Bolded classes should stay in the semester in which they are planned due to pre-requisites, co-requisites, or the term the course is offered. Talk with your Pre-professional Secondary Education minor advisor if you think you need or would like to take a bolded course in a different semester.