

# 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>						
	<b>Total Credits</b>	15	<b>Total Credits</b>	15	<b>Total Credits</b>	
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.			
		<b>Total Credits</b>	16	<b>Total Credits</b>	15	<b>Total Credits</b>
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>	
	<b>PHYS 391 (fall only)</b>	0	MSSE 371	1		
	PHYS 340 (fall only)	3	<b>PHYS 392 (spring only)</b>	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				
	<b>Total Credits</b>	15	<b>Total Credits</b>	15	<b>Total Credits</b>	
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>	<b>MSSE 414 (fall only)</b>	3	<b>PHYS 492 (spring only)</b>	1	<b>EDUC 540 (spring/summer)</b>	3
	<b>MSSE 415</b>	3	C2VPA	3	<b>EXED 512 (spring/summer)</b>	3
	LED 440	3	C4GE	3	<b>MSSE 607 (summer/fall)</b>	3
	<b>PHYS 491 (fall only)</b>	0	Physics Research	2	<b>MSSE 625 (spring/summer)</b>	3
	PHYS 380 (fall only)	3	C2HQQC	3		
	C4AE	4	PHYS 460	3	<i>*Passing score on Praxis SA required by August 15.</i>	
			*Attempt Praxis SA by 3/1.			
	<b>Total Credits</b>	16	<b>Total Credits</b>	15	<b>Total Credits</b>	12

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

## 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](http://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.

*This document is provided as an advising resource only. Official curriculum requirements are listed in the JMU Undergraduate Catalog and the JMU Graduate Catalog. In the case of discrepancies, the University Catalog is the official curriculum students must follow. This document was reviewed by the Middle, Secondary, and Mathematics Education Academic Unit Head on June 1, 2024.*