

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

Use the Biology 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>	BIO 140 (C3NS)	3	BIO 150 (BS Scientific Literacy)	3	*Take ALEKS/Praxis Core Math		
	BIO 140L (C3L)	1	BIO 150L	1	*Complete CPR/First Aid/AED		
	WRTC 103 (C1W)	3	CHEM 132	3			
	CHEM 131 (C3PP)	3	CHEM 132L	1			
	CHEM 131L	1	C1CT	3			
	C1HC	3	MATH Statistics (C3QR)	3			
	*Attend TE meeting in November.						
	Total Credits	14	Total Credits	14	Total Credits		
Year 2	Fall	Cr.	Spring	Cr.	Summer	Cr.	
	BIO 240 or BIO 250 (recommended)	3	BIO 240 or BIO 250	3			
	BIO 240L or BIO 250L	1	BIO 240L or BIO 250L	1			
	EDUC 200	3	C2VPA	3			
	CHEM 241	3	C5WD	3			
	MATH #2 (BS Quant. Reas.)	3	C4AE	4			
	PSYC 160 (C5SD)	3	MSSE 101	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>	PHYS 125	3	BIO elect. (organismal diversity/botany)	3			
	PHYS 125L	1	BIO elective w/lab	4			
	MSSE 210	3	MSSE 370	3			
	C4GE	3	MSSE 371	1			
	GEOL 355 (fall only; Earth Sci. req.)	3	BIO elective	4			
	BIO elective	3					
	Total Credits	16	Total Credits	15	Total Credits		
Year 4	Fall	Cr.	Spring	Cr.	Summer - GRAD	Cr.	
<i>MSSE 370, MSSE 371, and MSSE 210, must be completed before enrolling in MSSE 414, MSSE 415, and LED 440. Apply to The Graduate School by April 1 of senior year.</i>	MSSE 414 (fall only)	3	BIO elective (anatomy/physiology)	3	EDUC 540 (spring/summer)	3	
	MSSE 415	3	C2HQC	3	EXED 512 (spring/summer)	3	
	LED 440	3	Elective	3	MSSE 607 (summer/fall)	3	
	C2L	3	BIO elect. w/lab (org. diversity/zoology)	4	MSSE 625 (spring/summer)	3	
	BIO elective	3	Elective	3			
	*Attend Student Teaching meeting.			*Graduate undergrad.		*Passing score on Praxis SA required by August 15.	
	*Apply to graduate undergrad			*Attempt Praxis SA by 3/1.			
		Total Credits	15	Total Credits	16	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.