

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

Use the Chemistry 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	CHEM 132 (BS Scientific Literacy)	3	*Take ALEKS/Praxis Core Math		
	CHEM 131 (C3PP)	3	CHEM 136L (spring only)	2	*Complete CPR/First Aid/AED		
	CHEM 135L (C3L; fall only)	1	C1CT or C1HC	3			
	C1HC or C1CT	3	MATH 232 (BS Quantitative Reasoning)	3			
	MATH 231 (C3QR)	3	C2HQC	3			
	EDUC 200	3					
	*Attend TE meeting in November.						
	<b>Total Credits</b>	16	<b>Total Credits</b>	15	<b>Total Credits</b>		
Year 2	Fall	Cr.	Spring	Cr.	Summer	Cr.	
	C5WD	3	CHEM 242 (spring only)	3			
	CHEM 241 (fall only)	3	CHEM 288L (spring only)	2			
	CHEM 287L (fall only)	2	CHEM 270 (spring only)	3			
	MATH 236	4	BIO 140 (C3NS)	3			
	PSYC 160 (C5SD)	3	BIO 140L	1			
	MSSE 101	1	C2VPA	3			
				*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	<b>MSSE 370</b>	3			
	CHEM 351 (fall only)	4	<b>MSSE 371</b>	1			
	CHEM 481 (fall only)	1	CHEM 352 (spring only)	3			
	PHYS 240	3	CHEM 352L (spring only)	2			
	PHYS 240L (fall only)	1	CHEM 482 (spring only)	1			
	CHEM 325 (fall, odd years)	1	PHYS 250	3			
	GEOL 355 (fall only)	3	PHYS 250L (spring only)	1			
	<b>Total Credits</b>	16	<b>Total Credits</b>	14	<b>Total Credits</b>		
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.</i>	<b>MSSE 414 (fall only)</b>	3	CHEM 331 (spring only)	3	EDUC 540 (spring/summer)	3	
	<b>MSSE 415</b>	3	CHEM 336L (spring only)	2	EXED 512 (spring/summer)	3	
	LED 440	3	C4AE	4	MSSE 607 (summer/fall)	3	
	CHEM 361	3	C4GE	3	MSSE 625 (spring/summer)	3	
	C2L	3	Elective	3			
	*Attend Student Teaching meeting.			*Apply to graduate undergrad.		*Passing score on Praxis SA required by August 15.	
	*Apply to Graduate School			*Attempt Praxis SA by 3/1.			
	<b>Total Credits</b>	15	<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 grad 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.