

# 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

# 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 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.

*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.*