

# CHEMISTRY (M.S.)

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For details about this program, including program description, admission requirements, and contact information, click here (<https://www.montclair.edu/graduate/programs-of-study/chemistry-ms/>).

## Program Requirements

Code	Title	Credits
<b>Core Courses</b>		
CHEM 540	Advanced Physical Chemistry <sup>1</sup>	3
Select two of the following:		6
CHEM 520	Advanced Inorganic Chemistry <sup>1</sup>	
CHEM 530	Advanced Organic Chemistry <sup>1</sup>	
CHEM 560	Advanced Analytical Chemistry	
CHEM 570	Advanced Biochemistry	
<b>Electives</b>		
Select 17-21 credits from the following:		17-21
CHEM 510	Hazardous Materials Management	
CHEM 520	Advanced Inorganic Chemistry	
CHEM 525	Bioinorganic Chemistry	
CHEM 530	Advanced Organic Chemistry	
CHEM 532	Organic Synthesis	
CHEM 534	Separation and Analysis	
CHEM 538	Drug Design in Medicinal Chemistry	
CHEM 542	Quantum Chemistry and Spectroscopy	
CHEM 544	Chemical Thermodynamics and Electrochemistry	
CHEM 548	Chemical Kinetics	
CHEM 560	Advanced Analytical Chemistry <sup>1</sup>	
CHEM 570	Advanced Biochemistry	
CHEM 590	Special Topics in Advanced Chemistry	
<b>Research Options</b>		
Select one of the following options:		2-6
<i>Graduate Literature Search</i>		
CHEM 598	Graduate Literature Search	
CHEM 599	Graduate Seminar	
<i>Research &amp; Thesis</i>		
CHEM 595	Graduate Research	
CHEM 698	Master's Thesis	
Submit the completed Thesis original and one copy to the Graduate Office. See Thesis Guidelines for details.		
<b>Culminating Experience</b>		
Make a seminar presentation in conjunction with Research option. Graduate School must be notified when complete.		
<b>Total Credits</b>		<b>32</b>

<sup>1</sup> Students in the combined B.S. Chemistry/M.S. Chemistry program complete these courses as part of the undergraduate major.