

<b>Credit Requirements</b>	
Total Credits needed for degree	32
Total Credits needed in Chemistry	24
400-level Courses*	
Thesis Research (CHM 690)	≥ 8

## Department of Chemistry

### (Thesis) Master of Science Requirements



<b>1 lecture course (3 credits) from 4 core sections:</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>
<u>Biochemistry or approved Biology</u>															
CHM 453 - Biochemistry I															
CHM 454 - Biochemistry II															
CHM 457 - Biochemistry Lab (2 credits)															
CHM 550 - Science & Business of Biotechnology															
CHM 553 - Advanced Biochemistry															
CHM 554 - Topics in Biochemistry															
CHM 555 - Signal Transduction															
CHM 581 - Biochemical Toxicology															
<u>Inorganic chemistry</u>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>
CHM 463 - Inorganic Chemistry															
CHM 563 - Advanced Inorganic Chemistry															
CHM 564 - Topics in Inorganic Chemistry															
CHM 565 - Bioinorganic Chemistry															
<u>Organic chemistry</u>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>
CHM 438 - Organic/Inorganic Laboratory (2 credits)															
CHM 534 - Advanced Organic Chemistry															
CHM 535 - Topics in Organic Chemistry															
CHM 539 - Applied Organic Spectroscopy															
<u>Physical chemistry</u>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>
CHM 540 - Symmetry in Chemistry															
CHM 541 - Advanced Physical Chemistry															
CHM 542 - Topics in Physical Chemistry															
CHM 544 - Computational Chemistry															
<u>Polymer or Industrial chemistry</u>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>	<b>F</b>	<b>W</b>	<b>S</b>
CHM 470 - Industrial Chemistry															
CHM 471 - Structure & Synthesis of Polymers															
CHM 472 - Chemical & Physical Properties of Polymers															
CHM 477 - Macromolecular Laboratory (2 credits)															
CHM 573 - Fundamentals of Materials Chemistry															
CHM 574 - Polymer Science & Technology															

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**Department of Chemistry**  
**(Thesis) Master of Science Requirements**



<u>Analytical chemistry</u>	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S
CHM 412 - Atmospheric Chemistry															
CHM 426 - Instrumental Analysis															
CHM 427 - Electrochemistry															
CHM 521 - Advanced Analytical Chemistry															
CHM 522 - Topics in Analytical Chemistry															
CHM 523 - Chemical Separations															
<u>Environmental Science</u>	F	W	S	F	W	S	F	W	S	F	W	S	F	W	S
CHM 410 - Environmental Chemistry															
CHM 413 - Environmental Aquatic Chemistry															
ENV 446 - Industrial & Environmental Toxicology															
ENV 452 - Environmental Management Systems															
ENV 461 - Environmental Law & Policies															
ENV 474 - Industrial Hygiene Monitoring Methods															
ENV 484 - Environmental Toxicology															
ENV 485 - Environmental Fate & Transport															
ENV 486 - Toxic Substance Control															
CHM 690 - Graduate Research															
SCI 511 - Ethics & Practice of Science (2 credits)															
Elective**															
Elective**															
<b>Totals</b>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*May not duplicate courses already taken for undergraduate degree. No more than 12 credits at this level.

\*\*Elective courses must be in the basic sciences (chemistry, physics, biology) and approved by the advisor.

<b>Grand Total:</b>	<b>0</b>
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