



Credit Requirements		<div style="text-align: right;">  </div> Department of Chemistry (Non-Thesis) Master of Science Requirements														
Total Credits	32															
Total Credits needed in Chemistry	24															
400-level Courses*																
1 lecture course (3 credits) from 4 core sections:		F	W	S	F	W	S	F	W	S	F	W	S	F	W	S
<i>Biochemistry or approved Biology</i>																
CHM 453 - Biochemistry I																
CHM 454 - Biochemistry II																
CHM 457 - Biochemistry Lab																
CHM 550 - Science & Business of Biotechnology																
CHM 553 - Advanced Biochemistry																
CHM 554 - Topics in Biochemistry																
CHM 555 - Signal Transduction																
CHM 581 - Biochemical Toxicology																
<i>Inorganic chemistry</i>		F	W	S	F	W	S	F	W	S	F	W	S	F	W	S
CHM 463 - Inorganic Chemistry																
CHM 563 - Advanced Inorganic Chemistry																
CHM 564 - Topics in Inorganic Chemistry																
CHM 565 - Bioinorganic Chemistry																
<i>Organic chemistry</i>		F	W	S	F	W	S	F	W	S	F	W	S	F	W	S
CHM 438 - Organic/Inorganic Laboratory (2 credits)																
CHM 534 - Advanced Organic Chemistry																
CHM 535 - Topics in Organic Chemistry																
CHM 539 - Applied Organic Spectroscopy																
<i>Physical chemistry</i>		F	W	S	F	W	S	F	W	S	F	W	S	F	W	S
CHM 540 - Symmetry in Chemistry																
CHM 541 - Advanced Physical Chemistry																
CHM 542 - Topics in Physical Chemistry																
CHM 544 - Computational Chemistry																
<i>Polymer or Industrial chemistry</i>		F	W	S	F	W	S	F	W	S	F	W	S	F	W	S
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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400-level Courses*																
<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 590 - Graduate Projects (optional ≤ 6 credits)																
CHM 690 - Graduate Research (optional, ≤ 6 credits)																
SCI 511 - Ethics & Practice of Science (2 credits)																
Elective**																
Elective**																
Totals		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.

Grand Total:	0
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