

CHEMISTRY MS TIMELINE (THESIS TRACK)

| Semester 1 | Semester 2 | Semester 3 | Semester 4 |
|--|--|---|--|
| <p>Courses</p> <p>CHEM 5301 Introduction to Graduate Teaching and Research</p> <p>6 hours of CHEM 53XX or approved electives¹</p> | <p>Courses</p> <p>CHEM 5302 Project Preparation and Research Management</p> <p>6 hours of CHEM 53XX or approved electives¹</p> | <p>Courses</p> <p>CHEM 5390 Graduate Research or 3 hours of approved elective²</p> <p>6 hours of CHEM 53XX or approved electives¹</p> | <p>Courses</p> <p>CHEM 5396 Thesis³</p> <p>6 hours of CHEM 53XX or approved electives¹</p> |
| <p><u>Checklist</u></p> <p><input type="checkbox"/> Select thesis advisor</p> <p><input type="checkbox"/> Start research</p> | <p><u>Checklist</u></p> <p><input type="checkbox"/> Select thesis committee</p> <p><input type="checkbox"/> Continue research</p> <p><input type="checkbox"/> Begin working on thesis (if not already started)</p> | <p><u>Checklist</u></p> <p><input type="checkbox"/> Begin applying for jobs, PhD programs or professional schools</p> <p><input type="checkbox"/> Continue research</p> <p><input type="checkbox"/> Continue writing thesis</p> | <p><u>Checklist</u></p> <p><input type="checkbox"/> Finish research</p> <p><input type="checkbox"/> Apply for defense date⁴</p> <p><input type="checkbox"/> Submit Thesis by Due Date⁴</p> |

1. To teach in Texas colleges you must have 18 hours of CHEM lecture courses. Taking courses outside of the Chemistry and Biochemistry Department will require permission of the thesis advisor.

2. CHEM 5390 Graduate Research may be taken for up to 6 hours, but only 3 hours will count towards the degree.

3. CHEM 5396 Thesis may be taken for up to 6 hours, but only 3 hours will count towards the degree.

4. Dates vary, please visit the [Graduate School Deadlines website](#).

Chemistry Electives

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|----------------|---|
| CHEM 5299-5399 | Independent Study |
| CHEM 5312 | Chemical Sensors |
| CHEM 5316 | Advanced Analytical Chemistry |
| CHEM 5320 | Advanced Biochemistry |
| CHEM 5321 | Biochemical Foundation and Treatment of Disease |
| CHEM 5331 | Organometallic Chemistry |
| CHEM 5339 | Bioinorganic Chemistry |
| CHEM 5340 | Physical Organic Chemistry |
| CHEM 5341 | Organic Synthesis |
| CHEM 5342 | Nanochemistry and Macromolecules |
| CHEM 5350 | Quantum Mechanics |
| CHEM 5351 | Molecular Spectroscopy |
| CHEM 5383 | Advanced Chemical Principles of Fermentation |
| CHEM 5390 | Graduate Research |