

# Fast-Track Bachelors + Masters Chemistry Non-Thesis

The Fast-Track Bachelors + Masters degree program allows undergraduate students in the Chemistry to begin coursework towards the non-thesis option of the Master of Science in Chemistry during their senior year at East Texas A&M University. Students can earn a B.S. and M.S. degree in five years upon completion of degree requirements for both degrees. For this Fast-Track Bachelors + Masters program, 6 credits of graduate courses can be applied to the undergraduate degree. Students must apply to the Fast-Track Bachelors to Masters program by the end of their junior year after having completed at least 90 hours of undergraduate courses and a cumulative undergraduate GPA of 3.0 or higher. Successful completion of the comprehensive exams is required of all students to receive the Master of Science degree in Chemistry-Option II Non-Thesis.

Core Curriculum Courses		42
Required courses in the major		
CHEM 101	General Chemistry Tutorial I	1
CHEM 102	General Chemistry Tutorial II	1
CHEM 1111	General and Quantitative Chemistry Laboratory I *	
CHEM 1112	General and Quantitative Chemistry Laboratory II *	
CHEM 1311	General and Quantitative Chemistry I *	
CHEM 1312	General and Quantitative Chemistry II *	
CHEM 201	Organic Chemistry Tutorial I	1
CHEM 202	Organic Chemistry Tutorial II	1
CHEM 2123	Organic Chemistry Laboratory I	1
CHEM 2125	Organic Chemistry Laboratory II	1
CHEM 2323	Organic Chemistry I	3
CHEM 2325	Organic Chemistry II	3
CHEM 340	Quantitative & Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
CHEM 401	Chemical Sci & Profession	1
CHEM 418	Undergraduate Research	3
Advanced CHEM Courses		22
Electives		12
Required support courses		
MATH 2413	Calculus I *	
MATH 2414	Calculus II	4
PHYS 2425	University Physics I	4
PHYS 2426	University Physics II	4
Graduate Core Courses		
CHEM 521A	Chemical Thermodynamics	3
CHEM 531A	Advanced Inorganic Chem	3
*This course will satisfy the Core Curriculum Requirements ( <a href="https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/">https://coursecatalog.tamuc.edu/undergrad/core-curriculum-requirements/</a> ) in Natural Sciences and Mathematics. A grade of "C" or higher must be earned in all courses in this Major.		
<b>Total Hours</b>		<b>118</b>

## Master of Science in Chemistry Accelerated (BS-MS) Option II Non-Thesis

The BS-MS accelerated degree program allows undergraduate students in the Chemistry program to begin coursework towards the non-thesis option of the Master of Science in Chemistry program during their senior year at Texas A&M University-Commerce. Students can earn a B.S. and M.S. degree in five years upon completion of degree requirements for both degrees. For this accelerated program, 6 credits of graduate coursework can be applied to both the BS and MS degrees. Once admitted, the BS/MS candidate must maintain a 3.25 Undergraduate GPA. In the final semester of the student's undergraduate program, a new online Apply Texas Application for the master's Accelerated program must be submitted to gain admission and continue taking classes to complete the master's program.

### Research (3 semester hours)

CHEM 595	Research Lit & Techniques	3
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**Core courses completed as part of undergraduate Chemistry BS degree plan (6 semester hours)**

CHEM 521A	Chemical Thermodynamics *	3
CHEM 531A	Advanced Inorganic Chem *	3
<b>Remaining core courses (9 semester hours)</b>		
CHEM 513	Organic Mechanisms & Structure	3
CHEM 514	Biochemistry	3
CHEM 541	Advanced Analytical Chemistry	3
<b>Prescribed Chemistry Elective Courses (18 credit hours)</b>		
CHEM 502	Safety in the Chemical Laboratory	1-3
CHEM 515	Synthetic Organic Transformations	3
CHEM 517	Applied Biochemistry & Biotechnology	3
CHEM 522	Quantum Chemistry	3
CHEM 527	Chemical and Biochemical Characterization Methods I	3
CHEM 528	Chemical and Biochemical Characterization Methods II	3
CHEM 529	Workshop in Chemistry	3-6
CHEM 533	Kinetics and Mechanism	3
CHEM 536	Organometallic Chemistry	3
CHEM 547	Advanced Instrumental Analysis I	3
CHEM 548	Advanced Instrumental Analysis II	3
CHEM 589	Independent Studies	1-4
CHEM 597	Special Topics	1-4
<b>Total Hours</b>		<b>36</b>

\* Courses shared with BS

#### First Year

**Fall** **Hours**

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**Total Hours: 0**