Bachelor of Science in Chemistry to Master of Science in Chemistry Fast-Track

About This Program

The Bachelor of Science in Chemistry to Master of Science in Chemistry Fast-Track is recommended for students who wish to earn graduate level course credit and who wish to obtain graduate level research experience. This program is suitable for those students who plan to pursue doctoral graduate studies in chemistry and for those who anticipate professional careers as chemists. BS in Chemistry degree of this fast-track program is an American Chemical Society Certified degree.

ASSOCIATED PROGRAMS

For detailed information about the programs associated with this Fast Track, refer to their individual degree pages.

Chemistry BS

Chemistry MS

Admissions Criteria

For admission to the fast-track program students must:

- Be within 30 hours of graduation
- Have completed 30 hours at UTA.
- Complete fast track foundation courses with a GPA of 3.25 or better: CHEM 2322, CHEM 2335, CHEM 3317 (or CHEM 4318), CHEM 3321 (or CHEM 3322).
- Maintain a 3.3 GPA or higher in all Chemistry courses completed at UTA, and have a cumulative GPA of a 3.3 or higher.

Curriculum

Foundations		
General Core Requirements (https://catalog.uta.edu/academicregulations/degreerequirements/generalcorerequirements/)		42
For Communcaiton, select:		
ENGL 1301	RHETORIC AND COMPOSITION I	
ENGL 1302	RHETORIC AND COMPOSITION II	
For Mathematics, select:		
MATH 1426	CALCULUS I	
MATH 2425	CALCULUS II	
For Life and Physical Sciences, select:		
PHYS 1443	GENERAL TECHNICAL PHYSICS I	
PHYS 1444	GENERAL TECHNICAL PHYSICS II	
For U.S. History, select:		
HIST 1301	HISTORY OF THE UNITED STATES TO 1865	
HIST 1302	HISTORY OF THE UNITED STATES, 1865 TO PRESENT	
For Component Area Option, select:		
MATH 2326	CALCULUS III	3
Chemistry Foundations		
CHEM 1101	SUCCESS IN CHEMISTRY AND BIOCHEMISTRY	1
MATH 3318	DIFFERENTIAL EQUATIONS	3
or MATH 3319	DIFFERENTIAL EQUATIONS & LINEAR ALGEBRA	
PHYS 3313	INTRODUCTION TO MODERN PHYSICS	3
Biology or Geology for science majors courses approved by advisor		8
Fast Track Foundation Courses		
CHEM 2322	ORGANIC CHEMISTRY II	3
CHEM 2335	QUANTITATIVE CHEMISTRY	3
CHEM 3317	INORGANIC CHEMISTRY	3

or CHEM 4318	INORGANIC CHEMISTRY	
CHEM 3321	PHYSICAL CHEMISTRY I	3
or CHEM 3322	PHYSICAL CHEMISTRY II	
Chemistry Specialization (Professional Courses)		
CHEM 1341	GENERAL CHEMISTRY I	3
CHEM 1181	GENERAL CHEMISTRY I LABORATORY FOR ADVANCED CHEMICAL TECHNOLOGIES	1
CHEM 1342	GENERAL CHEMISTRY II	3
CHEM 1182	GENERAL CHEMISTRY II LABORATORY FOR ADVANCED CHEMICAL TECHNOLOGIES	1
CHEM 2321	ORGANIC CHEMISTRY I	3
CHEM 2283	SYNTHESIS AND ANALYSIS LABORATORY I	2
CHEM 2284	SYNTHESIS AND ANALYSIS LABORATORY II	2
CHEM 3182	PHYSICAL CHEMISTRY II LABORATORY	1
CHEM 3181	PHYSICAL CHEMISTRY I LABORATORY	1
CHEM 4101	SEMINAR IN CHEMISTRY	1
CHEM 4311	BIOCHEMISTRY I	3
CHEM 4346	ADVANCED SYNTHETIC METHODS	3
CHEM 4461	INSTRUMENTAL ANALYSIS	4
CHEM 4380	UNDERGRADUATE RESEARCH	3
Select at least 5 hours of 3000/4000 level CHEM courses.		5
Select ectives sufficient to complete 120 hours required for the undergraduate degree.		3
Select three graduate-level Chemistry courses for undergraduate credit with guidance of Chemistry Advisor		9
Computer proficiency waived by grade of C or better in CHEM 2335		
Chemistry MS		
Complete remainging requirements for Chemistry MS with thesis		21
Total Hours		**141**

SUGGESTED COURSE SEQUENCE (BS ONLY)

First Year

First Semester	Hours	Second Semester	Hours
CHEM 1341	3	CHEM 1342	3
CHEM 1181	1	CHEM 1182	1
MATH 1426	4	MATH 2425	4
ENGL 1301	3	ENGL 1302	3
POLS 2311	3	POLS 2312	3
CHEM 1101	1		
	15		**14**

Second Year

First Semester	Hours	Second Semester	Hours
CHEM 2321	3	CHEM 2322	3
CHEM 2335	3	CHEM 2284	2
CHEM 2283	2	MATH 2326	3
PHYS 1443	4	PHYS 1444	4
Elective Course	3	Language, Philosophy, and Culture Requirement	3
	15		**15**

Third Year

First Semester	Hours	Second Semester	Hours
CHEM 3321	3	CHEM 3322 or 5361[1]	3
CHEM 3181	1	CHEM 3182	1
BIOL 1441	4	CHEM 4318	3
MATH 3319	3	PHYS 3313	3
HIST 1301	3	HIST 1302	3
		Elective Course	2
	14		**15**

Fourth Year

First Semester	Hours	Second Semester	Hours
CHEM 3317 or 5341[1]	3	CHEM 4311 or 5331[1]	3

CHEM 4101	1	CHEM 4346	3
CHEM 4461 or 5421[1]	4	CHEM 4380	3
BIOL 1442	4	Social and Behavioral Science	3
Creative Arts	3	Foundational Component Course	3
Advanced Elective Course	2		
	17		**15**

Total Hours: 120

1 Once admitted to this fast-track program, students will be allowed to take up to 9 credit hours of CHEM graduate courses (if CHEM 5461 is taken, 10 credit hours are allowed) that may be used to satisfy both bachelor's and master's degree requirements.

Advising Resources

First time in college students should plan to speak to a program advisor when starting their second year. Transfer students should be advised prior to New Maverick Orientation.

Location:

SH 303

Email:

chemugradadvisor@uta.edu

Phone:

817-272-9687

Web:

Advising Information (https://www.uta.edu/academics/schools-colleges/science/departments/chemistry/advising/)