

MASTER OF SCIENCE IN CHEMISTRY (SCIENCE)

Web Site: <https://twu.edu/chemistry-biochemistry/graduate-program/>

Degree Requirements

Total Semester Credit Hours Required

36 semester credit hours (SCH).

Required Courses

16-17 SCH of chemistry coursework (excluding research, seminar, professional paper, and thesis) approved by an advisory committee. Science coursework track students must enroll in CHEM 5101 a minimum of two times. It is recommended students enroll in CHEM 5101 each semester if taking six or more SCH.

In the first year of studies, coursework track students must choose an advisor. All students in the coursework track must complete five basic chemistry courses for a total of 15 credits. The remaining courses in chemistry (including up to six SCH of Research in Chemistry), biology, or math will be determined in consultation with the advisor. In the last semester of study, students must register for CHEM 5973 where students will write a paper and defend it to their committee.

Science Track

Code	Title	SCHs
Required Courses (17 SCH)		
CHEM 5101	Seminar (take a minimum of 2 times)	2
Select 15 SCH from the following		15
CHEM 5013	Advanced Physical Chemistry	
CHEM 5213	Advanced Organic Chemistry	
CHEM 5323	Advanced Analytical Chemistry	
CHEM 5523	Advanced Inorganic Chemistry	
CHEM 5613	Advanced Biochemistry I	
CHEM 5623	Advanced Biochemistry II	
Electives		
Students must take 16 SCH. A maximum of 6 SCH are allowed for Chemistry Research.		16
CHEM 5101	Seminar (may be repeated)	
CHEM 5891	Research in Chemistry (may be repeated)	
CHEM 5893	Research in Chemistry (may be repeated)	
CHEM 5896	Research in Chemistry	
BIOL 5333	Advanced Pathophysiology	
BIOL 5883	Biological Research	
MATH 5033	Advanced Calculus	
MATH 5423	History of Mathematics	
MATH 5513	Matrix Algebra	
MATH 5543	Symbolic Logic	
Other courses as approved by advisor.		
Completion of Track		
CHEM 5973	Professional Paper	3
Total SCHs		36

Final Examination

All candidates for master's degrees must pass a final oral examination administered by the student's research committee.