

CHEMISTRY MINORS

Web Site: <https://twu.edu/chemistry-biochemistry/undergraduate-programs/chemistry-minor/>

Chemistry

A minor in Chemistry requires a minimum of 19 semester credit hours, six of which must be advanced (3000 or 4000 level). Advanced hours must be taken at Texas Woman's University. In addition to the courses listed, an additional 3-4 credit hours must be taken from the options listed within the table below.

Code	Title	SCHs
CHEM 1113 & CHEM 1111	General Chemistry I and General Chemistry Laboratory I	4
CHEM 1123 & CHEM 1121	General Chemistry II and General Chemistry Laboratory II	4
CHEM 2213 & CHEM 2211	Organic Chemistry I and Organic Chemistry Laboratory I	4
CHEM 3223 & CHEM 3221	Organic Chemistry II and Organic Chemistry Laboratory II	4
Choose one of the following		3-4
CHEM 3313	Physical Chemistry for the Life Sciences	
CHEM 3333 & CHEM 3331	Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory	
CHEM 3413 & CHEM 3411	Physical Chemistry I and Physical Chemistry Laboratory I	
CHEM 3633 & CHEM 3632	Biochemistry I and Biochemistry I Laboratory	
CHEM 3713 & CHEM 3711	Environmental Chemistry I and Environmental Chemistry Laboratory I	
Total SCHs		19-20

Environmental Science Minor

The Minor in Environmental Science is an interdisciplinary minor offered through the School of the Sciences. It will expose students from diverse majors to multiple scientific disciplines, including technology and communication, to enable them to incorporate an environmental perspective into their major disciplines. The minor requires 21-24 semester credit hours.

Code	Title	SCHs
ENVS 1213	Introduction to Environmental Science	3
SCI 2113	Earth Science: Global Perspectives	3
POLS 4813	Seminar in Public Policy	3
MATH 1703	Elementary Statistics I	3
Choose one of the following		3-4
BIOL 4223 & BIOL 4221	Ecology and Ecology Laboratory	
SCI 3013	Community Conversation in Sustainability	
SCI 3033	Water in a Changing Environment	
SCI 3133	Climate Change: A Human Perspective	
Choose 2 of the following		6-8
BIOL 1113 & BIOL 1111	Principles of Biology I and Principles of Biology I Laboratory	

BIOL 2113 & BIOL 2111	Plant Biology and Plant Biology Laboratory	
BIOL 4223 & BIOL 4221	Ecology and Ecology Laboratory	
BIOL 4293	Scientific Communication	
CHEM 1113 & CHEM 1111	General Chemistry I and General Chemistry Laboratory I	
CHEM 3713 & CHEM 3711	Environmental Chemistry I and Environmental Chemistry Laboratory I	
CSCI 2003	Software Systems Design and Tools	
CSCI 3373	Geographic Information Systems	
ENG 3253	Technical Writing	
MATH 1713	Elementary Statistics II	
SCI 3013	Community Conversation in Sustainability	
SCI 3033	Water in a Changing Environment	
SCI 3133	Climate Change: A Human Perspective	
Total SCHs		21-24

General Science

The minor in General Science requires 18 semester credit hours, six of which must be advanced. These must be divided among three of the following: chemistry, biology, physics, and science courses. If the major is biology or chemistry the hours must be divided between two of the remaining three.