

CHEMISTRY (PRE-MEDICAL & PRE-DENTAL CONCENTRATION), BACHELOR OF SCIENCE

Summary

Code	Title	Hours
Core Curriculum Requirements (https://catalog.tsu.edu/undergraduate/general-education-core-curriculum/)		42
Major Requirements (30 hours)		
CHEM 111	Chemistry I Lab	1
CHEM 112	Chemistry II Lab	1
CHEM 231	Organic Chem I	3
CHEM 211	Organic Chem I Lab	1
CHEM 232	Organic Chem II	3
CHEM 212	Organic Chem II Lab	1
CHEM 332	Quan Analysis Lec	3
CHEM 322	Quan Analysis Lab	2
CHEM 431	Physical Chem I	3
CHEM 411	Physical Chem I Lab	1
CHEM 445	Biochemistry	3
CHEM 445L	Biochem Lab	1
CHEM 450	Inorganic Chemistry I	3
CHEM 453	Instrumental Analysis Methods	3
CHEM 499	Seminar	1
Other Requirements (42 hours)		
CHEM 412	Physical Chem II Lab	1
CHEM 432	Physical Chem II	3
CHEM 451	Inorganic Chemistry II	3
CHEM 3XX or CHEM 4XX	Any 300-level or 400-level CHEM Course	3
BIOL 1306	Biological Science I	3
BIOL 111	Biological Science Lab I	1
BIOL 132	Biological Science II	3
BIOL 112	Biological Science Lab II	1
BIOL 231	Cell Biology	3
BIOL 211	Cell Biology Lab	1
BIOL 245	Human Anatomy & Physiology	4
BIOL 460	Biostatistics	3
	or MATH 1342 Elementary Statistics	
CS 117	Intro To Comp Science II	3
MATH 2413	Calculus & Analytic Geomtry I	4
MATH 2414	Calculus&Analytic Geometry II	4
PHYS 1301	College Physics I	3
PHYS 213	College Phys Lab I	1
PHYS 1302	College Physics II	3
PHYS 214	College Phys Lab II	1

FS 102	Freshman Seminar/ first Year Experience	1
Total Hours		121
Course	Title	Hours
First Year		
First Semester		
CHEM 1311	Chemistry I	3
CHEM 111	Chemistry I Lab	1
BIOL 1306	Biological Science I	3
BIOL 111	Biological Science Lab I	1
ENGL 1301	Freshman English I	3
MATH 2312	Precalculus Math	3
FS 102	Freshman Seminar/ first Year Experience	1
Hours		15
Second Semester		
CHEM 1312	Chemistry II	3
CHEM 112	Chemistry II Lab	1
BIOL 132	Biological Science II	3
BIOL 112	Biological Science Lab II	1
ENGL 1302	Freshman English II	3
MATH 2413	Calculus & Analytic Geomtry I	4
Hours		15
Second Year		
Third Semester		
CHEM 231	Organic Chem I	3
CHEM 211	Organic Chem I Lab	1
ENG 2XX Any 200-level English		3
MATH 2414	Calculus&Analytic Geometry II	4
COSC 1301	Intro To Compr Science I	3
HIST 1301	Soc & Pol Hist US to 1877	3
Hours		17
Fourth Semester		
CHEM 232	Organic Chem II	3
CHEM 212	Organic Chem II Lab	1
CS 117	Intro To Comp Science II	3
HIST 1302	Soc & Pol Hist US Since 1877	3
Creative Art Course ²		3
Hours		13
Third Year		
Fifth Semester		
CHEM 332	Quan Analysis Lec	3
CHEM 322	Quan Analysis Lab	2
POLS 2305	American Government	3
PHYS 213	College Phys Lab I	1
PHYS 1301	College Physics I	3
PSYC 2301	General Psychology	3
	or SOCI 1301 or Introduction To Sociology	
Hours		15
Sixth Semester		
CHEM 445	Biochemistry	3
CHEM 445L	Biochem Lab	1
POLS 2306	Texas Government	3

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PHYS 214	College Phys Lab II	1
PHYS 1302	College Physics II	3
BIOL 211	Cell Biology Lab	1
BIOL 231	Cell Biology	3
CHEM 499	Seminar	1
Hours		16

Fourth Year

Seventh Semester

CHEM 431	Physical Chem I	3
CHEM 411	Physical Chem I Lab	1
CHEM 450	Inorganic Chemistry I	3
BIOL 460	Biostatistics	3
	or MATH 1342 or Elementary Statistics	
Elective		3
	Any 300-level or 400-level CHEM Course	
COMM 1321	Business & Professional Comm	3
	or COMM 1315 or Public Address	
Hours		16

Eighth Semester

CHEM 432	Physical Chem II	3
CHEM 412	Physical Chem II Lab	1
CHEM 451	Inorganic Chemistry II	3
CHEM 453	Instrumental Analysis Methods	3
BIOL 245	Human Anatomy & Physiology	4
Hours		14
Total Hours		121

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Pending acceptable scores on English and Math Placement Exams.

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MUSI 1306 Music Appreciation, MUSI 1315 Fine Arts In Daily Living, THEA 1310 Introduction to Theatre, ARTS 1315 Intro African Art

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PSYC 2301 General Psychology, SOCI 1301 Introduction To Sociology, SOCI 1306 Contemporary Social Issues, SOCI 2306 Soc Of Human Sexuality, SOCI 2346 Introduction To Anthropology, ECON 2301 Principles Of Economics I or ECON 2302 Principles Of Economics II.