School of Natural Sciences and Mathematics

Chemistry (BA or BS)

Degree Requirements (120 semester credit hours)

Four-Year Degree Plan (Example)

This is an example only. Please see advisor to develop individual four-year plan.

- Chemistry (BA)
- Chemistry (BS)

Chemistry (BA)

Degree Requirements (120 semester credit hours)

Four-Year Degree Plan (Example)

This is an example only. Please see your advisor to develop your individual plan.

	Fall Semester	SCH	Spring Semester	SCH
FRESHMAN	CHEM 1311 General Chemistry I[2] [3]	3	CHEM 1312 General Chemistry II[2] [3]	3
	CHEM 1111 General Chemistry Lab I[2] [3]	1	CHEM 1112 General Chemistry Lab II[3]	1
	HIST 1301 U.S. History Survey to Civil War[2] [8]	3	HIST 1302 United States History Survey from the Civil War[2] [8]	3
	MATH 2413 Differential Calculus[2] [3] [4] [9]	4	MATH 2414 Integral Calculus[2] [3] [4]	4
	COMM 1311 Survey of Oral and Technology-based Communication[2] [8]	3	PHYS 2325 Mechanics[2]	3
	NATS 1101 Natural Sciences and Mathematics Freshman Seminar[1]	1	PHYS 2125 Physics Laboratory I[2] [3] [5]	1

	UNIV 1010 Freshman Seminar[1]	0		
		15		15
	Fall Semester	**SCH**	**Spring Semester**	**SCH**
SOPHOMORE	CHEM 2323 Introductory Organic Chemistry I[6]	3	CHEM 2325 Introductory Organic Chemistry II[6]	3
	CHEM 2123 Introductory Organic Chemistry Laboratory I[6]	1	CHEM 2125 Introductory Organic Chemistry Laboratory II[6]	1
	PHYS 2326 Electromagnetism and Waves[2]	3	CHEM 2401 Introductory Quantitative Methods in Chemistry	4
	PHYS 2126 Physics Laboratory II	1	PSY 2301 Introduction to Psychology[2 8]	3
	MATH 2415 Calculus of Several Variables[2]	4	MATH 2418 Linear Algebra	4
	RHET 1302 Rhetoric[2 8]	3		
		15		15
	Fall Semester	**SCH**	**Spring Semester**	**SCH**
JUNIOR	CHEM 3321 Physical Chemistry I	3	CHEM 3322 Physical Chemistry II[11]	3
	CHEM 3472 Instrumental Analysis	4	CHEM 3471 Advanced Chemical Synthesis Laboratory	4
	CHEM 3361 Biochemistry I[10]	3	CHEM Guided Elective	3
	BIOL 3161 Biochemistry Workshop I	1	Free Elective	3
	GOVT 2305 American National Government[2 8]	3	GOVT 2306 State and Local Government[2 8]	3
		14		16
	Fall Semester	**SCH**	**Spring Semester**	**SCH**
SENIOR	ARTS 1301 Exploration of the Arts[2 8]	3	HUMA 1301 Exploration of the Humanities[2 8]	3
	CHEM Guided Elective	3	CHEM Guided Elective	3
	CHEM Guided Elective	3	CHEM Guided Elective	3
	Free Elective	3	Free Elective	3
	Free Elective	3	Free Elective	3
		15		15

NOTES:

1 Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.

2	Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3	A required Major course that also fulfills Core Curriculum requirements. If semester credit hours are counted in the Core Curriculum, students must complete additional coursework to meet the minimum requirement for graduation. Course selection assistance is available from the undergraduate advisor.
4	Three semester credit hours of Calculus are counted to fulfill the Mathematics Core Requirement with the remaining five semester credit hours to be counted under Component Area Option Core.
5	Six semester credit hours of Chemistry are counted under Science core, and one semester of Physics (PHYS 2125) are counted under Component Area Option core.
6	Indicates a prerequisite class to be completed before enrolling for upper-division classes.
7	
8	These core curriculum courses can be substituted with any allowed core curriculum course for the appropriate category
9	The MATH 2413, 2414, 2415 calculus sequence can be replaced with the MATH 2417, 2419, 2451 sequence
10	CHEM 3361 and BIOL 3161 can be replaced with CHEM 4335
11	CHEM 3322 can be replaced with CHEM 3341

Be sure to check prerequisites of Level 2 courses

120 semester credit hours required for graduation

This plan is a resource tool only; it does not replace your degree plan or academic advising.

Chemistry (BS)

Degree Requirements (120 semester credit hours)

Four-Year Degree Plan (Example)

This is an example only. Please see your advisor to develop your individual plan.

FR	Fall Semester	SCH	Spring Semester	SCH

FRESHMAN	CHEM 1311 General Chemistry I[2,3]	3	CHEM 1312 General Chemistry II[2,3]	3
	CHEM 1111 General Chemistry Lab I[2,3]	1	CHEM 1112 General Chemistry Lab II[3]	1
	HIST 1301 U.S. History Survey to Civil War[2,8]	3	HIST 1302 United States History Survey from the Civil War[2,8]	3
	MATH 2413 Differential Calculus[2,3,4,9]	4	MATH 2414 Integral Calculus[2,3,4]	4
	COMM 1311 Survey of Oral and Technology-based Communication[2,8]	3	PHYS 2325 Mechanics[2]	3
	NATS 1101 Natural Sciences and Mathematics Freshman Seminar[1]	1	PHYS 2125 Physics Laboratory I[2,3,5]	1
	UNIV 1010 Freshman Seminar[1]	0		
		15		15
	Fall Semester	**SCH**	**Spring Semester**	**SCH**
SOPHOMORE	CHEM 2323 Introductory Organic Chemistry I[6]	3	CHEM 2325 Introductory Organic Chemistry II[6]	3
	CHEM 2123 Introductory Organic Chemistry Laboratory I[6]	1	CHEM 2125 Introductory Organic Chemistry Laboratory II[6]	1
	PHYS 2326 Electromagnetism and Waves[2]	3	CHEM 2401 Introductory Quantitative Methods in Chemistry	4
	PHYS 2126 Physics Laboratory II	1	PSY 2301 Introduction to Psychology[2,8]	3
	MATH 2415 Calculus of Several Variables[2]	4	MATH 2418 Linear Algebra	4
	RHET 1302 Rhetoric[2,8]	3		
		15		15
	Fall Semester	**SCH**	**Spring Semester**	**SCH**
JUNIOR	CHEM 3321 Physical Chemistry I	3	CHEM 3322 Physical Chemistry II	3
	CHEM 3472 Instrumental Analysis	4	CHEM 3471 Advanced Chemical Synthesis Laboratory	4
	CHEM 3361 Biochemistry I	3	CHEM 3362 Biochemistry II	3
	BIOL 3161 Biochemistry Workshop I	1	BIOL 3162 Biochemistry Workshop II	1
	GOVT 2305 American National Government[2,8]	3	GOVT 2306 State and Local Government[2,8]	3
			Free Elective	2
		14		16
	Fall Semester	**SCH**	**Spring Semester**	**SCH**
SE	CHEM 3341 Inorganic Chemistry I	3	CHEM 4473 Physical Measurements	4

			Laboratory	
	CHEM 4V91 Research in Chemistry[7]	3	CHEM 4390 Research and Advanced Writing in Chemistry[7]	3
JUNIOR	ARTS 1301 Exploration of the Arts[2,8]	3	HUMA 1301 Exploration of the Humanities[2,8]	3
	Free Elective	3	Free Elective	3
	Free Elective	3	Free Elective	2
		15		**15**

NOTES:

1	Incoming freshmen must enroll and complete requirements of UNIV 1010 and the corresponding school-related freshman seminar course. Students, including transfer students, who complete their core curriculum at UT Dallas must take UNIV 2020.
2	Curriculum Requirements can be fulfilled by other approved courses from institutions of higher education. The courses listed are recommended as the most efficient way to satisfy both Core Curriculum and Major Requirements at UT Dallas.
3	A required Major course that also fulfills Core Curriculum requirements. If semester credit hours are counted in the Core Curriculum, students must complete additional coursework to meet the minimum requirement for graduation. Course selection assistance is available from the undergraduate advisor.
4	Three semester credit hours of Calculus are counted to fulfill the Mathematics Core Requirement with the remaining five semester credit hours to be counted under Component Area Option Core.
5	Six semester credit hours of Chemistry are counted under Science core, and one semester of Physics (PHYS 2125) are counted under Component Area Option core.
6	Indicates a prerequisite class to be completed before enrolling for upper-division classes.
7	Research in Chemistry (CHEM 4V91), Research and Advanced Writing in Chemistry (CHEM 4390), and Research and Advanced Writing in Chemistry for Honors Students (CHEM 4399) are better defined as a project than a course and constitute an important part of the BS degree. The student conducts original research under the supervision of a faculty member, and then must submit a research report which is defended orally. Normally this project will span two or more semesters. A complete set of guidelines is available from the undergraduate advisor.
8	These core curriculum courses can be substituted with any allowed core curriculum course for the appropriate category
9	The MATH 2413, MATH 2414, and MATH 2415 calculus sequence can be replaced with the MATH 2417, MATH 2419, and MATH 2451 sequence

Be sure to check prerequisites of Level 2 courses

120 semester credit hours required for graduation

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Updated: 2017-07-25 12:29:44 v2.4adcd5