CHEMISTRY - BS

The BS program in Chemistry is arranged so that a student obtains a comprehensive, solid foundation in all of the major branches of chemistry, combined with a suitable measure of individual flexibility. The latter objective is met in part by a strong emphasis on involving the undergraduate BS chemistry major in exciting, innovative, state-of-the-art research programs. Most students in the BS program become involved in research during their junior year and continue this until graduation. Students frequently receive research scholarships and fellowships, which include opportunities for summer research programs. It is not uncommon for an undergraduate chemistry major to be a coauthor of scientific publications in major research journals before graduation.

Undergraduate chemistry research activities involve substantial use of modern scientific equipment, including major instrumentation. The student involved in this activity also gains considerable insight into the profession by means of substantial individual contact with chemistry department faculty.

The BS degree in Chemistry is the appropriate program for students planning advanced degree programs in chemistry, biochemistry, forensics, chemical physics and other fields. Students planning careers in chemical industry should also choose the BS degree in Chemistry. Students may wish to choose electives suggested in the biological or environmental chemistry tracks. This degree program satisfies fully the accreditation requirements of the American Chemical Society.

Program Requirements

First	Year
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	Semester Credit Hours	
•	(http://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/#american-	3
MATH 151 or MATH 171	Engineering Mathematics I or Calculus I	4
ENGL 104	Composition and Rhetoric	3
CHEM 119	Fundamentals of Chemistry I ¹	4
CHEM 100	Horizons in Chemistry	nouis 1
Fall		Semester Credit Hours

	Semester Credit Hours	15
Spring		
CHEM 120	Fundamentals of Chemistry II ¹	4
MATH 152 or MATH 172	Engineering Mathematics II or Calculus II	4
PHYS 206	Newtonian Mechanics for Engineering and Science	3
PHYS 226	Physics of Motion Laboratory for the Sciences	1
•	(http://catalog.tamu.edu/undergraduate/ ion/university-core-curriculum/#american-	3
	Somestor Credit Hours	15

	Semester Credit Hours	15
Second Year		
Fall		
CHEM 227	Organic Chemistry I 1	3

BICH 440

Biochemistry I

CHEM 231	Techniques of Organic Chemistry	2
PHYS 207	Electricity and Magnetism for Engineering and Science	3
PHYS 227	Electricity and Magnetism Laboratory for the Sciences	1
Select one of th	e following	3-4
MATH 221	Several Variable Calculus	
MATH 251	Engineering Mathematics III	
MATH 253	Engineering Mathematics III	
	Semester Credit Hours	13
Spring		
CHEM 228	Organic Chemistry II ¹	3
CHEM 234	Organic Synthesis and Analysis ²	3
CHEM 362	Descriptive Inorganic Chemistry	3
Select one of th	e following:	3
MATH 304	Linear Algebra	
MATH 308	Differential Equations	
STAT 211	Principles of Statistics I	
Communication	(http://catalog.tamu.edu/undergraduate/	3
	tion/university-core-curriculum/	
	Semester Credit Hours	15
Third Year		
Fall		
CHEM 315	Fundamentals of Quantitative Analysis	3
CHEM 318	Quantitative Analysis Laboratory	1
CHEM 327	Physical Chemistry I	3
CHEM 433	Advanced Inorganic Chemistry Laboratory	2
POLS 206	American National Government	3
•	tp://catalog.tamu.edu/undergraduate/ tion/university-core-curriculum/#creative-	3
	Semester Credit Hours	15
Spring		
CHEM 325	Physical Chemistry Laboratory I	1
CHEM 328	Physical Chemistry II	3
POLS 207	State and Local Government	3
undergraduate/	sophy and culture (http://catalog.tamu.edu/ general-information/university-core- iguage-philosophy-culture)	3
undergraduate/curriculum/#soc	vioral sciences (http://catalog.tamu.edu/ general-information/university-core- cial-behavioral-sciences)	3
General elective	. 3	3
Fourth Year	Semester Credit Hours	16
Fall	Dhysical Chamistmy I shows to H	-
CHEM 326	Physical Chemistry Laboratory II	1
CHEM 415	Analytical Chemistry	3
CHEM 491	Research ⁴	3
Select one of th		3
BICH 410	Comprehensive Biochemistry I	
BICH 411	Comprehensive Biochemistry II	
DICH 440	Piochomiotry I	

BICH 441 Biochemistry II CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry CHEM 470 Industrial Chemistry CHEM 489 Special Topics in PHYS 309 Modern Physics General electives Semester Credit Hours Spring CHEM 481 Seminar CHEM 491 Research BICH 410 Comprehensive Biochemistry I BICH 411 Biochemistry I BICH 441 Biochemistry II CHEM 446 Organic Chemistry III CHEM 446 Nuclear Chemistry III CHEM 456 Chemical Biology CHEM 461 Nuclear Chemistry CHEM 462 Inorganic Chemistry CHEM 463 Materials Chemistry CHEM 464 Nuclear Chemistry CHEM 465 Chemical Biology CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry CHEM 469 Special Topics in CHEM 480 Special Topics in CHEM 481 Green Chemistry CHEM 483 Green Chemistry CHEM 484 Green Chemistry CHEM 485 Special Topics in CHEM 489 Special Topics in CHEM 480 Semester Credit Hours		Total Semester Credit Hours	120
CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry CHEM 470 Industrial Chemistry CHEM 483 Green Chemistry CHEM 489 Special Topics in PHYS 309 Modern Physics General electives Semester Credit Hours Spring CHEM 481 Seminar CHEM 481 Seminar CHEM 491 Research BICH 410 Comprehensive Biochemistry II BICH 411 Comprehensive Biochemistry II BICH 440 Biochemistry III CHEM 446 Organic Chemistry III CHEM 446 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry CHEM 468 Materials Chemistry CHEM 483 Green Chemistry CHEM 483 Green Chemistry CHEM 483 Green Chemistry CHEM 484 Green Chemistry CHEM 485 Green Chemistry CHEM 487 Green Chemistry CHEM 488 Green Chemistry CHEM 489 Special Topics in PHYS 309 Modern Physics		Semester Credit Hours	15
CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry CHEM 470 Industrial Chemistry CHEM 489 Special Topics in PHYS 309 Modern Physics General electives Semester Credit Hours Spring CHEM 434 Analytical Instrumentation Laboratory CHEM 481 Seminar CHEM 481 Seminar CHEM 491 Research BICH 410 Comprehensive Biochemistry I BICH 410 Comprehensive Biochemistry II BICH 440 Biochemistry II CHEM 446 Organic Chemistry III CHEM 446 Chemical Biology CHEM 461 Nuclear Chemistry CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry CHEM 468 Materials Chemistry CHEM 468 Green Chemistry CHEM 489 Special Topics in PHYS 309 Modern Physics	General elective	es ³	5-6
CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry CHEM 470 Industrial Chemistry CHEM 489 Special Topics in PHYS 309 Modern Physics General electives 3 6 Semester Credit Hours 16 Spring CHEM 434 Analytical Instrumentation Laboratory 2 CHEM 481 Seminar 2 2 CHEM 491 Research 4 3 Select one of the following: 5 3 BICH 410 Comprehensive Biochemistry II BICH 441 Biochemistry II CHEM 446 Organic Chemistry III CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry of Inorganic Materials CHEM 470 Industrial Chemistry CHEM 468 Materials Chemistry CHEM 470 Industrial Chemistry CHEM 483 Green Chemistry	PHYS 309		
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CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry CHEM 466 Polymer Chemistry CHEM 468 Materials Chemistry of Inorganic Materials CHEM 470 Industrial Chemistry CHEM 483 Green Chemistry CHEM 489 Special Topics in PHYS 309 Modern Physics	General elective	es ³	(
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CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry CHEM 464 Nuclear Chemistry	CHEM 468	Materials Chemistry of Inorganic Materials	
CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology CHEM 462 Inorganic Chemistry	CHEM 466	Polymer Chemistry	
CHEM 446 Organic Chemistry III CHEM 456 Chemical Biology	CHEM 464	Nuclear Chemistry	
CHEM 446 Organic Chemistry III	CHEM 462	Inorganic Chemistry	
	CHEM 456	Chemical Biology	
BICH 441 Biochemistry II	CHEM 446	Organic Chemistry III	
	BICH 441	Biochemistry II	

¹ Select a section designated for chemistry majors.

² This is a designated C- or W-course.

³ Select any course 100-499 not used elsewhere except AERS 100-299 (http://catalog.tamu.edu/undergraduate/course-descriptions/aers/); CHEM 222, CHEM 242; MATH 102, MATH 140, MATH 142, MATH 167, MATH 168; MLSC 100-299 (http://catalog.tamu.edu/undergraduate/course-descriptions/mlsc/); NVSC 100-299 (http://catalog.tamu.edu/undergraduate/course-descriptions/nvsc/); PHYS 201, PHYS 202, PHYS 205.

Students may substitute 3 hours of CHEM 484for CHEM 491 in consultation with an advisor.

Students wishing to complete an American Chemical Society certified degree program must take at least one semester of biochemistry (i.e., BICH 410 or BICH 440).

Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) courses and 3 hours of Cultural

Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/) courses. A course satisfying a Core category, a college/department requirement, or a general elective can be used to satisfy this requirement.

The total hours of CHEM 484, CHEM 485, and CHEM 491 taken by BS chemistry majors on a graded (A–F) basis may not exceed 15. Additional hours of these courses may be taken on a satisfactory/unsatisfactory basis.

Electives should be chosen in consultation with the chemistry advisor and should be selected to meet the residency requirement (36 hours at 300-400 level must be taken at Texas A&M).