CHEMISTRY (BS) - FORENSIC TRACK

Program Overview

This B.S. in Forensic Chemistry is designed for students interested in working in a forensics laboratory or pursuing graduate studies in forensics. In addition to the general degree requirements, the track requires satisfactory completion of courses in chemistry, criminal justice, mathematics, and physics. These provide a broad foundation in the field and permit flexibility for evolving and changing student interests. In addition to the core chemistry courses, the Forensic Chemistry track consists of a broad range of upper-level elective courses to expose students to modern techniques in chemistry and chemical forensics and help them expand their college experience. The curriculum emphasizes evidence collection, analysis, interpretation, and presentation of physical evidence.

Career Opportunities

Students majoring in chemistry may pursue careers as teachers, entry level chemist, and medicine.

Program of Study

Code	Title	Credit Hours
Core IMPACTS A	rea : Institutional Priorities ¹	4-5
Choose one of th	e following communication options	3
COMM 1110	Public Speaking	
Foreign Langu	age Course Options	
	CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LAT 1001, 1002, 2001, 2002; SWAH - 1001, 1002.	IN,
Take one of the f	ollowing courses	1-2
ITDS 1779	Scholarship Across the Disciplines	
LEAD 1705	Introduction to Servant Leadership	
PERS 1506	Perspectives 1-hour	
PERS 1507	Perspectives 2-hour	
Core IMPACTS A	rea : Mathematics & Quantitative Skills ¹	3-7
DATA 1501	Introduction to Data Science	3
MATH 1001	Quantitative Skills and Reasoning	3
MATH 1101	Introduction to Mathematical Modeling	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	4
MATH 1125	Applied Calculus	3
MATH 1131	Calculus with Analytic Geometry I	4
MATH 1132	Calculus with Analytic Geometry II	4
MATH 1165	Computer-Assisted Problem Solving	3
MATH 1401	Introduction to Statistics	3
MATH 1501	Calculus I	4
MATH 2125	Introduction to Discrete Mathematics	3
STAT 1401	Elementary Statistics	3
Core IMPACTS A	rea : Political Science and U.S. History	6
HIST 2111	U. S. History to 1865	3
or HIST 2112	U. S. History since 1865	
POLS 1101	American Government	3

Select one Fine Arts course ARTH 1100 Art Appreciation ARTH 2125 Introduction to the History of Art II— Prehistoric through Gothic ARTH 2126 Introduction to the History of Art II— Renaissance through Modern MUSC 1100 Music Appreciation THEA 1100 Theatre Appreciation ITDS 1145 Comparative Arts 2 Select one Humanities course 3 ENGL 2111 World Literature I ENGL 2112 World Literature II ITDS 1155 The Western Intellectual Tradition ITDS 11774 Introduction to Digital Humanities PHIL 2010 Introduction to Digital Humanities PHIL 2010 Introduction to Philosophy ITDS 1145 Comparative Arts 2 Core IMPACTS Area : Communicating in Writing 6 ENGL 1101 English Composition II 3 SCORE IMPACTS Area : Technology, Mathematics, and Sciences 1.3 7-11 ANTH 1145 Human Origins 3 ASTR 1105 Descriptive Astronomy: The Solar System 3 ASTR 1105 Descriptive Astronomy Stars and Galaxies 3 ASTR 1305 Descriptive Astronomy Lab 1 ATSC 1112 Understanding the Weather 13 ATSC 1112 Understanding the Weather 14 BIOL 1125 Contemporary Issues in Biology Non-Lab 18 BIOL 1215K Introductory Biology 4 BIOL 1225K Contemporary Issues in Biology with Lab 19 CHEM 1151 Survey of Chemistry I 4 8 1151L and Survey of Chemistry I 4 8 1151L and Principles of Chemistry I Lab 19 CHEM 1211 Principles of Chemistry I Lab 19 CHEM 1212 Introduction to Computing Principles and 19 Technology 19 CPSC 1301K Computer Science I 19 ENVS 1105 Environmental Studies Laboratory 11 ENVS 1105 Environmental Studies L	Core IMPACTS Are	ea : Arts, Humanities, and Ethics	6
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ASTR 1106 Descriptive Astronomy: Stars and Galaxies 3 ASTR 1305 Descriptive Astronomy Lab 1 ATSC 1112 Understanding the Weather 3 ATSC 1112L Understanding the Weather Lab 1 BIOL 1125 Contemporary Issues in Biology Non-Lab 3 BIOL 1215K Introductory Biology 4 BIOL 1225K Contemporary Issues in Biology with Lab 4 CHEM 1151 Survey of Chemistry I 4 & 1151L and Survey of Chemistry I Lab 4 CHEM 1152 Survey of Chemistry II 4 & 1152L and Survey of Chemistry II Lab 4 CHEM 1211 Principles of Chemistry II Lab 4 CHEM 1211 Principles of Chemistry II Lab 4 CHEM 1212 Principles of Chemistry II Lab 4 CHEM 1212 Principles of Chemistry II Lab 6 CHEM 1212 Principles of Chemistry II Lab 7 CPSC 1105 Introduction to Computing Principles and 7 Technology CPSC 1301K Computer Science I 4 ENVS 1105 Environmental Studies 1 ENVS 1105L Environmental Studies Laboratory 1 ENVS 1205K Sustainability and the Environment 4 GEOG 2215 Introduction to the Geographic Information 3 Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1122 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 Lab 1 ATSC 1112 Introductory Geo-sciences II: Historical Geology 1 ATSC 1112 Introductory Geo-sciences II: Historical Geo	ANTH 1145	Human Origins	3
ASTR 1305 Descriptive Astronomy Lab 1 ATSC 1112 Understanding the Weather 3 ATSC 1112L Understanding the Weather Lab 1 BIOL 1125 Contemporary Issues in Biology Non-Lab 3 BIOL 1215K Introductory Biology 4 BIOL 1225K Contemporary Issues in Biology with Lab 4 CHEM 1151 Survey of Chemistry I 4 & 1151L and Survey of Chemistry I Lab 4 & 1152L and Survey of Chemistry II Lab 4 & 1152L and Survey of Chemistry II Lab 4 & 1152L and Principles of Chemistry II Lab 4 & 1211L and Principles of Chemistry II Lab 4 & 1211L and Principles of Chemistry II Lab 6 CHEM 1212 Principles of Chemistry II Lab 7 CHEM 1212 Principles of Chemistry II Lab 7 CPSC 1105 Introduction to Computing Principles and 7 Technology 7 CPSC 1301K Computer Science I 4 ENVS 1105 Environmental Studies 1 ENVS 1105L Environmental Studies 1 ENVS 1205K Sustainability and the Environment 1 ENVS 1205K Sustainability and the Environment 1 GEOG 2215 Introduction to the Geographic Information 3 Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	ASTR 1105	Descriptive Astronomy: The Solar System	3
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BIOL 1225K Contemporary Issues in Biology with Lab CHEM 1151 Survey of Chemistry I & 1151L and Survey of Chemistry I Lab CHEM 1152 Survey of Chemistry II & 1152L and Survey of Chemistry II Lab CHEM 1211 Principles of Chemistry II Lab CHEM 1211 Principles of Chemistry I Lab CHEM 1212 Principles of Chemistry II & 1211L and Principles of Chemistry II Lab CHEM 1212 Principles of Chemistry II Lab CPSC 1105 Introduction to Computing Principles and Technology CPSC 1301K Computer Science I ENVS 1105 Environmental Studies ENVS 1105 Environmental Studies Laboratory IENVS 1205K Sustainability and the Environment GEOG 2215 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment GEOL 1121 Introductory Geoscience I: Physical Geology GEOL 1122 Introductory Geosciences II: Historical Geology Introductory Geo-sciences II: His	BIOL 1125	Contemporary Issues in Biology Non-Lab	3
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& 1211L and Principles of Chemistry I Lab CHEM 1212 Principles of Chemistry II 4 & 1212L and Principles of Chemistry II Lab CPSC 1105 Introduction to Computing Principles and Technology CPSC 1301K Computer Science I 4 ENVS 1105 Environmental Studies 3 ENVS 1105L Environmental Studies Laboratory 1 ENVS 1205K Sustainability and the Environment 4 GEOG 2215 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab		•	
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ENVS 1205K Sustainability and the Environment 4 GEOG 2215 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	ENVS 1105	·	3
ENVS 1205K Sustainability and the Environment 4 GEOG 2215 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	ENVS 1105L	Environmental Studies Laboratory	1
GEOG 2215 Introduction to the Geographic Information Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	ENVS 1205K	Sustainability and the Environment	4
Systems GEOL 1110 Natural Disasters: Our Hazardous Environment 3 GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOG 2215	-	3
GEOL 1121 Introductory Geoscience I: Physical Geology 3 GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab			
GEOL 1121L Introductory Geoscience I: Physical Geology Lab 1 GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOL 1110	Natural Disasters: Our Hazardous Environment	3
GEOL 1122 Introductory Geo-sciences II: Historical Geology 3 GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOL 1121	Introductory Geoscience I: Physical Geology	3
GEOL 1322 Introductory Geo-sciences II: Historical Geology 1 Lab	GEOL 1121L	Introductory Geoscience I: Physical Geology Lab	1
Lab	GEOL 1122	Introductory Geo-sciences II: Historical Geology	3
GEOL 2225 The Fossil Record 4	GEOL 1322		1
	GEOL 2225	The Fossil Record	4

PHYS 1111	Introductory Physics I	4
& PHYS 1311	and Introductory Physics I Lab	4
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab	4
PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1
PHYS 2211 & PHYS 2311	Principles of Physics I and Principles of Physics I Lab	4
PHYS 2212 & PHYS 2312	Principles of Physics II and Principles of Physics II Lab	4
Core IMPACTS Ar	ea : Social Sciences	6
Select one Behav	ioral Science course	
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	
PSYC 1101	Introduction to General Psychology	
SOCI 1101	Introduction to Sociology	
Select one World	Cultures course	3
ANTH 1107	Discovering Archaeology	
ANTH 1105	Cultural Anthropology	
ANTH 2105	Ancient World Civilizations	
ANTH 2136	Language and Culture	
ENGL 2136	Language and Culture	
GEOG 1101	World Regional Geography	
HIST 1111	World History to 1500	
HIST 1112	World History since 1500	
ITDS 1156	Understanding Non-Western Cultures	
Core IMPACTS To	tal Hours	42
Health and Welln	ess	3
KINS 1106	Lifetime Wellness	2
or PHED 1205	Concepts of Fitness	
Select one of the	following	1
Any PEDS coul	rse	
MUSC 1206	Body Mapping (Music Majors Only)	
1		

¹ The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas

must add to 18 credit hours.

ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

At least 4 of the credit hours in this area must be in a lab science

course.

Major Requirements

Code	Title	Credit Hours
Core Requiremen	nts	
Complete the cor	re requirements for this program	45
Field of Study Requirements		
Students must have a grade of C or better in the course used to satisfy the major.		
Apply two hours of approved electives		2
STAT 1401	Elementary Statistics	3
CHEM 1715	Introductory Chemistry Seminar	1

CHEM 2115	Quantitative Chemical Analysis	3
CHEM 2315	Quantitative Chemical Analysis Lab	1
Complete a physic Track).	cs course sequence (Principles required for ACS	8
Introductory Phys	ics Sequence:	
PHYS 1111	Introductory Physics I	
PHYS 1311	Introductory Physics I Lab	
PHYS 1112	Introductory Physics II	
PHYS 1312	Introductory Physics II Lab	
Principles of Phys	ics Sequence:	
PHYS 2211	Principles of Physics I	
PHYS 2311	Principles of Physics I Lab	
PHYS 2212	Principles of Physics II	
PHYS 2312	Principles of Physics II Lab	
Field of Study Red	quirements Total	18
Required for the M	lajor	
Students must ha satisfy the major.	ve a grade of C or better in the course used to	
MATH 1132	Calculus with Analytic Geometry II	4
BIOL 1107K	Principles of Biology I	4
BIOL 3215K	Cell Biology	4
CHEM 1165	Introductory Forensic Chemistry	3
CHEM 3111	Organic Chemistry I	3
CHEM 3112	Organic Chemistry II	3
CHEM 3135	Inorganic Chemistry	3
CHEM 3141	Biochemistry I	3
CHEM 3311	Organic Chemistry I Lab	1
CHEM 3312	Organic Chemistry II Lab	1
CHEM 3335	Inorganic Chemistry Lab	1
CHEM 3345	Biochemistry Lab I	1
CHEM 4115	Foundations of Physical Chemistry	3
CHEM 4175	Instrumental Methods of Chemical Analysis	3
CHEM 4315	Foundations of Physical Chemistry Lab	1
CHEM 4375	Instrumental Methods of Chemical Analysis Lab	1
CHEM 4794	Capstone Seminar	1
CRJU 1105	Introduction to Criminal Justice	3
CRJU 4177	Principles of Forensic Science: Human Identification	3
CRJU 4719	Principles of Forensic Science: Lethal Agents and Crimes	3
Required for the M	lajor Total	49
General Electives		
	of general electives. To satisfy degree requirements, must be from courses of level 3000 or above.	11
General Electives	Total	11
Total Credit Hours		123

Program	Map
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i rogram map			
Course	Title	Credit Hours	
First Year Fall			
CHEM 1211	Principles of Chemistry I (minimum grade of C) $^{\rm 1}$	3	
CHEM 1211L	Principles of Chemistry I Lab (minimum grade of C) 1	1	
MATH 1113	Pre-Calculus (minimum grade of C)	4	
CHEM 1715	Introductory Chemistry Seminar (Area H, minimum grade of C) ²	1	
ENGL 1101	English Composition I (minimum grade of C)	3	
POLS 1101	American Government	3	
	Credit Hours	15	
Spring			
CHEM 1212	Principles of Chemistry II (minimum grade of C) ¹	3	
CHEM 1212L	Principles of Chemistry II Lab (minimum grade of C) 1	1	
MATH 1131	Calculus with Analytic Geometry I (minimum grade of C)	4	
ENGL 1102	English Composition II (minimum grade of C)	3	
Institutional	ITDS 1779 (2), LEAD 1705 (2), PERS 1506	1	
Priorities	(1; may be repeated with different topic), PERS 1507 (2)		
Institutional Priorities	COMM 1110 Public Speaking or foreign language 1001, 1002, 2001, 2002	3	
	Credit Hours	15	
Second Year			
Fall	3		
CHEM 3111 CHEM 3311	Organic Chemistry I (minimum grade of C) ³ Organic Chemistry I Lab (minimum grade of	3 1	
	C) ³		
PHYS 2211	Principles of Physics I	3	
PHYS 2311 MATH 1132	Principles of Physics I Lab Calculus with Analytic Geometry II	1 4	
WATH 1132	(minimum grade of C)	4	
BIOL 1231K		4	
	Credit Hours	16	
Spring			
CHEM 3112	Organic Chemistry II (minimum grade of C)	3	
CHEM 3312	Organic Chemistry II Lab (minimum grade of C) 4	1	
PHYS 2212	Principles of Physics II	3	
PHYS 2312	Principles of Physics II Lab	1	
CRJU 1105	Introduction to Criminal Justice	3	
KINS 1106 or PHED 1205	Lifetime Wellness or Concepts of Fitness	2	

Health and	Select one PEDS course (https://	1
Wellness	catalog.columbusstate.edu/course- descriptions/peds/#peds)	
	Credit Hours	14
Third Year	orealt riours	
Fall		
CHEM 2115	Quantitative Chemical Analysis (minimum grade of C) 5	3
CHEM 2315	Quantitative Chemical Analysis Lab (minimum grade of C) ⁵	1
CHEM 3141	Biochemistry I (minimum grade of C)	3
CHEM 3345	Biochemistry Lab I (minimum grade of C)	1
BIOL 3215K	Cell Biology	4
Arts, Humanities, and Ethics	Humanities (ENGL 2111, ENGL 2112, ITDS 1145, ITDS 1155, ITDS 1774, ITDS 2125, or PHIL 2010	3
General Electives	Elective	1
	Credit Hours	16
Spring		
CHEM 4175	Instrumental Methods of Chemical Analysis (minimum grade of C) ⁶	3
CHEM 4375	Instrumental Methods of Chemical Analysis Lab (minimum grade of C) ⁶	1
BIOL 3216K	Genetics	4
	Fine Arts (ARTH 1100, ARTH 2125,	3
and Ethics	ARTH 2126, ITDS 1145, MUSC 1100, THEA 1100)	
General Electives	Electives	3
	Electives Credit Hours	3 14
Fourth Year		
Fourth Year Fall	Credit Hours	14
Fourth Year	Credit Hours Foundations of Physical Chemistry (minimum grade of C)	
Fourth Year Fall	Credit Hours Foundations of Physical Chemistry	14
Fourth Year Fall CHEM 4115	Credit Hours Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab	3
Fourth Year Fall CHEM 4115 CHEM 4315	Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C)	3 1
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794	Credit Hours Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101,	3 1
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794 Social Sciences HIST 2111	Credit Hours Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101, SOCI 1101) U. S. History to 1865	3 1 1 3
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794 Social Sciences HIST 2111 or HIST 2112	Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101, SOCI 1101) U. S. History to 1865 or U. S. History since 1865 Principles of Forensic Science: Human Identification (minimum grade of C)	14 3 1 1 3
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794 Social Sciences HIST 2111 or HIST 2112 CRJU 4177 General Electives	Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101, SOCI 1101) U. S. History to 1865 or U. S. History since 1865 Principles of Forensic Science: Human Identification (minimum grade of C)	14 3 1 3 3
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794 Social Sciences HIST 2111 or HIST 2112 CRJU 4177	Credit Hours Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101, SOCI 1101) U. S. History to 1865 or U. S. History since 1865 Principles of Forensic Science: Human Identification (minimum grade of C) Elective Credit Hours	14 3 1 3 3 3 17
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794 Social Sciences HIST 2111 or HIST 2112 CRJU 4177 General Electives Spring	Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101, SOCI 1101) U. S. History to 1865 or U. S. History since 1865 Principles of Forensic Science: Human Identification (minimum grade of C) Elective	14 3 1 1 3 3 3
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794 Social Sciences HIST 2111 or HIST 2112 CRJU 4177 General Electives Spring CHEM 3135	Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101, SOCI 1101) U. S. History to 1865 or U. S. History since 1865 Principles of Forensic Science: Human Identification (minimum grade of C) Elective Credit Hours Inorganic Chemistry (minimum grade of C) Inorganic Chemistry Lab (minimum grade	14 3 1 1 3 3 3 3 17
Fourth Year Fall CHEM 4115 CHEM 4315 CHEM 4794 Social Sciences HIST 2111 or HIST 2112 CRJU 4177 General Electives Spring CHEM 3135 CHEM 3335	Foundations of Physical Chemistry (minimum grade of C) Foundations of Physical Chemistry Lab (minimum grade of C) Capstone Seminar (minimum grade of C) Behavioral Science (ECON 2105, ECON 2106, PHIL 2030, PSYC 1101, SOCI 1101) U. S. History to 1865 or U. S. History since 1865 Principles of Forensic Science: Human Identification (minimum grade of C) Elective Credit Hours Inorganic Chemistry (minimum grade of C) Inorganic Chemistry Lab (minimum grade of C) World Culture (ANTH 1105, ANTH 1107, ANTH 2105, ANTH 2136, ENGL 2136, GEOG 1101, HIST 1111, HIST 1112, or ITDS 1156)	14 3 1 1 3 3 3 17 3 1

CRJU 4719	Principles of Forensic Science: Lethal Agents and Crimes (minimum grade of C)	3
This semester includes milestone EST Major Field Test.		
Credit Hours		16
	Total Credit Hours	123

- The Principles of Chemistry sequence are offered each semester and summer. These must be completed by the summer.
- Introductory Chemistry Seminar is only offered in the fall semester.
- Organic Chemistry 1 and the co-requisite lab are only offered in the fall semester.
- Organic Chemistry 2 and the co-requisite lab are only offered in the spring semester.
- Quantitative Chemical Analysis and the co-requisite lab are only offered in the fall semester.
- Instrumental Analysis and the co-requisite lab are only offered in the spring semester.
 - To graduate, a student must have 39 credits of upper-division courses (3000 level or higher). These courses may be in any discipline.
 - · A grade of "C" or higher is required for all chemistry courses.
 - The prerequisite for Principles of Chemistry 1 (CHEM 1211 Principles of Chemistry I) and its co-requisite lab is College Algebra (MATH 1111 College Algebra) with a grade of "C" or higher or placement in MATH 1113 Pre-Calculus or higher.
 - · Introductory Physics 1 and 2 with the co-requisite labs are required for completion of the B.S. in chemistry.
 - · The prerequisite for Introductory Physics 1 (PHYS 1111 Introductory Physics I) and its lab is pre-calculus (MATH 1113 Pre-Calculus) or higher.
 - The prerequisite for Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
 - The prerequisite for Biochemistry 1 (CHEM 3141 Biochemistry I) and its co-requisite lab (CHEM 3345 Biochemistry Lab I) are Organic Chemistry 1 (CHEM 3111 Organic Chemistry I) and its co-requisite lab (CHEM 3311 Organic Chemistry I Lab) with a "C" or higher in each.
 - · The prerequisite for Inorganic Chemistry (CHEM 3135 Inorganic Chemistry) and its co-requisite lab (CHEM 3335 Inorganic Chemistry Lab) are Organic Chemistry 2 (CHEM 3112 Organic Chemistry II) and its co-requisite lab (CHEM 3312 Organic Chemistry II Lab) with a "C" or higher.
 - The prerequisite for Foundations of Physical Chemistry (CHEM 4115 Foundations of Physical Chemistry and its co-requisite lab (CHEM 4315 Foundations of Physical Chemistry Lab are Calculus 1 (MATH 1131 Calculus with Analytic Geometry I) and Introductory Physics 2 (PHYS 1112 Introductory Physics II) and its lab with a "C" or higher.
 - · Foundations of Physical Chemistry lecture and lab may be offered at night, i.e. 4:30 - 5:45 for the lecture and 6:00 - 8:50 for lab.
 - The prerequisite for Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis and its corequisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab are Quantitative Chemical Analysis (CHEM 2115 Quantitative Chemical Analysis) and its co-requisite lab (CHEM 2315 Quantitative Chemical Analysis Lab), Organic Chemistry 2 and its co-requisite Lab (CHEM 3312 Organic Chemistry II Lab), and Calculus 1 (MATH 1131

- Calculus with Analytic Geometry I). A minimum grade of "C" or higher is required to satisfy the prerequisite requirement.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- · Quantitative Analysis and its co-requisite lab (CHEM 2115 Quantitative Chemical Analysis and CHEM 2315 Quantitative Chemical Analysis Lab) are only offered in the fall semester.
- · Instrumental Methods of Chemical Analysis (CHEM 4175 Instrumental Methods of Chemical Analysis) and its co-requisite lab (CHEM 4375 Instrumental Methods of Chemical Analysis Lab) are only offered in the spring semester.
- Inorganic Chemistry and its co-requisite lab (CHEM 3135 Inorganic Chemistry and CHEM 3335 Inorganic Chemistry Lab) may be offered in the fall or spring semester.
- · Organic Chemistry 1 and its co-requisite lab (CHEM 3111 Organic Chemistry I and CHEM 3311 Organic Chemistry I Lab) are only offered in the fall semester and Organic Chemistry 2 and its co-requisite lab (CHEM 3112 Organic Chemistry II and CHEM 3312 Organic Chemistry II Lab) are only offered in the spring semester.
- Biochemistry 1 and its co-requisite lab (CHEM 3141 Biochemistry I and CHEM 3345 Biochemistry Lab I) are only offered in the fall semester and Biochemistry 2 with its co-requisite lab (CHEM 3142 Biochemistry II and CHEM 3346 Biochemistry II Lab) are only offered in the spring semester.
- · Supervised Undergraduate Research (CHEM 4899 Supervised Undergraduate Research) is offered as a 1, 2, or 3 credit hour course. The course may be repeated with a different topic up to 9 credits.
- · Additional courses in astronomy, biology, chemistry, computer science, engineering, geology, or mathematics courses may be selected as program electives as approved by advisor and the department chair.

Admission Requirements

There are no program specific admission requirements.

Additional Program Requirements

There are no program specific academic regulations.