CHEMISTRY, BACHELOR OF SCIENCE (BS) -CONCENTRATION IN HEALTH **SCIENCES**

Recommended Four-Year Plan

Course First Year Fall	Title	Hours
CHEM 107 & CHEM 111	General Chemistry I and General Chemistry I Lab	4
BIOL 114	Biology II: Foundations of Molecules, Genes and Cells with Lab	4
ENGL 102	Critical Writing	3
ESAP 101	FYRST Seminar *	1
Select one of the foll	lowing:	3-4
MATH 120	Intermediate Algebra (if necessary)	
MATH 125	Precalculus (if necessary)	
MATH 225	Calculus I (if necessary)	
MATH 230	Calculus II	
	Hours	15-16
Spring		
CHEM 108 & CHEM 112	General Chemistry II and General Chemistry II Lab	4
BIOL 250	Genetics with Lab	4
STAT 152	Elementary Statistics I	3
SUBJ 139	Foundations of Academic Discovery	3
Select one of the foll	lowing:	4
MATH 125	Precalculus (if necessary)	
MATH 225	Calculus I (if necessary)	
MATH 230	Calculus II	
	Hours	18
Second Year Fall		
CHEM 201 & CHEM 211	Organic Chemistry I and Organic Chemistry Laboratory I	4
BIOL 216	Anatomy and Physiology I with Lab	3
ENGL 104	Critical Reading	3
PHYS 216	University Physics 1 with Lab	4
Select one of the foll	lowing:	4
MATH 225	Calculus I (if necessary)	
MATH 230	Calculus II	
	Hours	18
Spring		
CHEM 202	Organic Chemistry II	4
& CHEM 212	and Organic Chemistry Laboratory II	
BIOL 217	Anatomy and Physiology II with Lab	3
MATH 230	Calculus II	4
PHYS 217	University Physics 2 with Lab	4
Select one of the foll	lowing Civil Discourse Requirement):	3

	COMM 200	Civil Discourse: Theory & Practice	
	PHIL 110	Ethics and Civil Discourse	
	POLS 235	Civil Discourse and Democracy	
		Hours	18
ΤI	hird Year		
Fa	all		
S	elect one of the follo	owing:	7-8
	In even years, sele	ct:	
	CHEM 335	Biochemistry I	
	& CHEM 336	and Biochemistry Laboratory I	
	CHEM 442	Inorganic Chemistry	
	In odd years, selec	it:	
	CHEM 301 & CHEM 321	Physical Chemistry 1 and Physical Chemistry Laboratory I	
	CHEM 350	Analytical Chemistry	
	& CHEM 351	and Analytical Chemistry Lab	
E)	XSC 250	Medical Terminology	3
		ive Course (https://catalog.sru.edu/ studies/rock-studies-program/)	3
		ive Course (https://catalog.sru.edu/	3
u	ndergraduate/rock-	studies/rock-studies-program/)	
		Hours	16-17
	pring		
S	elect one of the foll	owing:	7
	In odd years, selec	it:	
	CHEM 452	Physical Inorganic Chemistry Laboratory	
	CHEM 460	Materials Chemistry	
		ective Course (https://catalog.sru.edu/ ck-studies/rock-studies-program/)	
	In even years, sele	ct:	
	CHEM 302	Physical Chemistry II	
	CHEM 425 & CHEM 426	Instrumental Analysis and Instrumental Analysis Laboratory	
	elect one of the follond lab):	owing In-Depth Chemistry Electives (lecture	4
	CHEM 337	Biochemistry II	
	& CHEM 338	and Biochemistry Laboratory II	
	CHEM 340	Air Quality Assessment	
	CHEM 370	Water Quality Assessment	
	CHEM 415	Forensic Analysis	
	& CHEM 416	and Forensic Analysis Lab	
	CHEM 475	Advanced Organic Synthesis	
P	SYC 105	Introduction to Psychology	3
		ive Course (https://catalog.sru.edu/ studies/rock-studies-program/)	3
		Hours	17
Fo	ourth Year		
Fa	all		
S	elect one of the follo	owing:	7-8
	In even years, sele	ct:	
	CHEM 335	Biochemistry I	
	& CHEM 336	and Biochemistry Laboratory I	
	CHEM 442	Inorganic Chemistry	
	In odd years, selec	it:	

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CHEM 301Physical Chemistry 1& CHEM 321and Physical Chemistry Laboratory ICHEM 350Analytical Chemistry LabInquiry/Thread/Elective Course (https://catalog.sru.edu/ and Analytical Chemistry Lab3undergraduate/rock-studies/rock-studies-program/)3Inquiry/Thread/Elective Course (https://catalog.sru.edu/ audergraduate/rock-studies/rock-studies-program/)3Inquiry/Thread/Elective Course (https://catalog.sru.edu/ audergraduate/rock-studies/rock-studies-program/)3Inquiry/Thread/Elective Course (https://catalog.sru.edu/ audergraduate/rock-studies/rock-studies-program/)3Inquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies-program/)6-7In odd years, select: CHEM 452Physical Inorganic Chemistry LaboratoryCHEM 450Materials ChemistryInquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies.program/)6-7In even years, select: CHEM 302Physical Chemistry II (even years)CHEM 302Physical Chemistry II (even years)CHEM 303and Instrumental Analysis & CHEM 425CHEM 425Instrumental Analysis and Biochemistry LaboratorySelect one of the following In Depth Chemistry Electives (1 & 4CHEM 337Biochemistry Laboratory IICHEM 338and Biochemistry Laboratory IICHEM 339Air Quality AssessmentCHEM 310Air Quality AssessmentCHEM 315Forensic Analysis LabCHEM 415Forensic Analysis LabCHEM 416and Forensic Analysi		Total Hours**	134-138
& CHEM 321 and Physical Chemistry Laboratory I CHEM 350 Analytical Chemistry Laboratory I Inquiry/Thread/Elective Course (https://catalog.sru.edu/ aundergraduate/rock-studies/rock-studies-program/) Inquiry/Thread/Elective Course (https://catalog.sru.edu/ aundergraduate/rock-studies/rock-studies-program/) Inquiry/Thread/Elective Course (https://catalog.sru.edu/ aundergraduate/rock-studies/rock-studies-program/) Inquiry/Thread/Elective Course (https://catalog.sru.edu/ aundergraduate/rock-studies/rock-studies-program/) Inquiry/Thread/Elective Course (https://catalog.sru.edu/ aundergraduate/rock-studies/rock-studies-program/) Select one of the following: 6-7 In odd years, select: CHEM 452 Physical Inorganic Chemistry Laboratory CHEM 460 Materials Chemistry Inquiry/Thread/Elective Course (https://catalog.sru.edu/ undergraduate/rock-studies/rock-studies-program/) In even years, select: CHEM 302 Physical Chemistry II (even years) CHEM 425 Instrumental Analysis & CHEM 425 Instrumental Analysis Laboratory Select one of the following In Depth Chemistry Electives (1 4 lecutre and 1 lab): CHEM 337 Biochemistry II & CHEM 338 and Biochemistry Laboratory II CHEM 330 Air Quality Assessment CHEM 415 Forensic Analysis & CHEM 415 Forensic Analysis Lab CHEM 415 Advanced Organic Synthesis BIOL 330 Microbiology/Lab Inquiry/Thread/Elective Course (https://catalog.sru.edu/ and Inquiry/Thread/Elective Course (https://catalog.sru.edu/ and Inquiry/Thread/Elective Course (https://catalog.sru.edu/ BIOL 330 Microbiology/Lab		Hours	16-17
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	& CHEM 321	and Physical Chemistry Laboratory I	

¹ Course offered in multiple subjects; cannot take course in first major subject.

* Students are encouraged to take ESAP 101 as a Free Elective.

** This document is meant to serve as a guide. Some planners may show more than 120 credits because faculty have created flexibility in choosing courses. However, only 120 credits are required to obtain a degree. Please consult with your academic adviser and refer to your curriculum guide prior to registering for courses. This plan should be reviewed, and verified, by you and your academic adviser at least once each academic year.

Major Code: 6118 Concentration Code: CHHS Revised date: 07.10.2023