Plan of Study

Analytical Science

Catalog Year: 2021-2022

Students majoring in this program will be prepared to work as chemists, physicists, or data science specialists for industry and state and federal scientific and healthcare agencies. They will also be well prepared to pursue masters and doctoral degrees in chemistry, physics, engineering, or medicine.

Sample Schedule: students are not limited to this plan; it is meant to serve as a guide for planning purposes in discussions with your academic advisor. This plan is one possible path to completing this degree in ***four years.***

First year University Experience course in consultation with Analytical Science Advisor

FIRST YEAR

First Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CHEM 112 Chemistry I	Math 114, 115, 129, 121, 123, 125 or 281	4	F
ENGL 101 Composition I		3	F/S/SU
MATH 123 Calculus I	Placement reports determine	4	F/S
Social Science Requirement		3	F/S/SU
CSC 105 Introduction to Computers		3	F/S/SU
	Total Credit Hours	**17**	

Second Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
CHEM 114 Chemistry II	CHEM 112 and Math 114, 115, 129, 121, 123, 125 or 281	4	S
Oral Communication Requirement		3	F/S/SU
MATH 125 Calculus II	MATH 123	4	S
Arts and Humanities Requirement		3	F/S/SU
	Total Credit Hours	**14**	

SECOND YEAR

Third Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
PHYS 111 Introduction to Physics I ***OR*** PHYS 211 University Physics I (in consultation with advisor)	PHYS 111-Math 114 or 120 or 121 or 123 or 281 PHYS 211-MATH 123 or MATH 125	4	F
CSC 150 Computer Science I		3	
MATH 201 Intro. To Discrete Math	MATH 114, 120 or 123	3	F/S/SU
Science elective BIOL/CHEM/PHYS		3	
Free elective		3	
	Total Credit Hours	**16**	

Fourth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
PHYS 113 Introduction to Physics II ***OR*** PHYS 213 University Physics II (in consultation with advisor)	PHYS 113-PHYS 111 PHYS 213-MATH 123 and PHYS 211	4	S
CSC 250 Computer Science II		3	
MATH 281 Statistics		3	F/S/SU
ENGL 201 Composition II	ENGL 101	3	F/S/SU
	Total Credit Hours	**13**	

THIRD YEAR

Fifth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
Concentration component	Discuss with advisor	4	
CSC elective		3	F/S/SU
Social Science Requirement		3	F/S/SU
MATH elective		3	
Free elective		3	
	Total Credit Hours	**16**	

Sixth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
Concentration component	Discuss with advisor	4	
Science elective BIOL/CHEM/PHYS		3	
Free elective		3	
ENGL 379 Technical Communication	ENGL 201	3	S
	Total Credit Hours	**16**	

FOURTH YEAR

Seventh Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
Concentration component	Discuss with advisor	4	
Science elective BIOL/CHEM/PHYS		3	
CSC elective		3	F/S/SU
Arts & Humanities Requirement		3	F/S/SU
Free elective		3	
	Total Credit Hours	**16**	

Eighth Semester

Course	Prerequisites / Comments	Credits	Semester(s) Offered
Concentration component	Discuss with advisor	3	
Free elective		3	
MATH elective		3	
BIOL/CHEM/PHYS/CSC/CIS 498	Need instructor permission	3	F/S
	Total Credit Hours	**12**	

Semester: F = Fall; S = Spring; SU = Summer

Information and course schedules may change. This is not a contract.