

Program Map: (ACS Certified)
Department of Chemistry and Forensic Science
College of Sciences and Technology

Name:
Start Date:

SID:
Catalog Date:

Advisor:
Expected Graduation Date:

Freshman	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	ENGL 1101* Core Area A	Composition I Pre-requisite:	3	ENGL 1102* Core Area A	Composition II Pre-requisite: ENGL 1101	3	*A grade of a C or better must be earned for this course
	MATH 1113* Core Area A	Pre-Calculus Pre-requisite: MATH 1111	3	MATH 2101* Area F	Calculus I Pre-requisite: MATH 1113	4	
	CHEM 1211* Area F	Principles of Chemistry I* Pre-requisite: None	3	CHEM 1212* Area F	Principles of Chemistry II Pre-requisite: CHEM 1211	3	
	CHEM 1211L* Area F	Principles of Chemistry I Lab* Pre-requisite: None	1	CHEM 1212L* Major	Principles of Chemistry II Lab Pre-requisite: CHEM 1211	1	
	BIOL 1107* Area D	Principles of Biology I Pre-requisite: None	3	BIOL 1108* Area D	Principles of Biology II Pre-requisite: BIOL 1107	3	
	BIOL 1107L* Area D Lab	Principles of Biology I Lab Pre-requisite: None	1	BIOL 1108L* Area D Lab	Principles of Biology II Lab Pre-requisite: BIOL 1107L	1	
	COST 1103 Area F	COST First Year Experience	2				
	Fall Milestones			Total	Spring Milestones		
			16			15	

Sophomore	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	MATH 2111* Area F	Calculus II Pre-requisite: MATH 2101	4	CHEM 2601K* Major	Chemistry Research Methods Pre-requisite: CHEM 1212	2	*A grade of a C or better must be earned for this course
	HUMN 1201 Core Area B	Critical Thinking & Communication	3	PHYS 2212K* Area D	Principles of Physics II Pre-requisite: PHYS 2211K	4	
	PHYS 2211K* Area D	Principles of Physics I Pre-requisite: MATH 2101	4	CHEM 2511* Major	Organic Chemistry II Pre-requisite: CHEM 2501	3	
	CHEM 2501* Major	Organic Chemistry I Pre-requisite: CHEM 1212	3	CHEM 2511L* Major	Organic Chemistry II Lab Pre-requisite: CHEM 2501L	1	
	CHEM 2501L* Major	Organic Chemistry I Lab Pre-requisite: CHEM 1212L	1	Area D (non-lab)*		3	
	Area E Social Sci. Option		3	AFRS 1501 Core Area B	Survey of African American Experience	2	
	Fall Milestones			Total	Spring Milestones		Total
	Student should know their career track.			18	Student should have completed a job shadowing experience relevant to their career track		15

Junior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	CHEM 3101K* Major	Analytical Chemistry Pre-requisite: CHEM 1212/1212L	4	CHEM 3411K* Area D	Physical Chemistry II Pre-requisite: CHEM 3401	4	*A grade of a C or better must be earned for this course
	CHEM 3401K* Major	Physical Chemistry I Pre-requisite: CHEM 1212/1212L	4	CHEM 3111K* Major	Instrumental Analysis Pre-requisite: CHEM 310K	4	
	CHEM 3201K* Major	Inorganic Chemistry Pre-requisite: CHEM 1212/1212L	4	MATH 3101* Major	Linear Algebra Pre-requisite: MATH 2111	3	
	CHEM 3522L* Major	Advanced Synthesis Pre-requisite: CHEM 2511/2511L	2	POLS 1101 Core Area E	American Government	3	
	HIST 2111 or 2112	U.S. History	3	Core Area C Option		3	
	Student should have completed an internship or research experience relevant to their career track.			17	Students should have completed any required admissions testing for their career track (GRE, MCAT, PCAT, DAT)		17

Senior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	CHEM 3801* Major	Biochemistry Pre-requisite: CHEM 2511/BIOL 1108	3	Area E Social Sci. Option		3	*A grade of a C or better must be earned for this course
	CHEM 3602K* Major	Research & Internship Pre-requisite: CHEM 2601K; CHEM 2511	2	Core Area C Option		3	**Some professional educational programs may need to be completed by the summer before the senior year.
	CHEM 4531* Major	Advanced Organic Chemistry Pre-requisite:	3	FSCI 4201* Major	Drug Abuse & Drug Analysis Pre-requisite:	3	Does this Degree Program Require a Minor? <u>No</u>
	CHEM 4411* Major	Advanced Physical Chemistry Pre-requisite:	3	CHEM 4601* Major	Polymer Chemistry Pre-requisite:	3	Total Hours Required for this Degree Program: <u>122</u>
	CHEM 4901* Major	Chemical Seminar Pre-requisite: Junior or Senior	1				
	Fall Milestones			Total	Spring Milestones		Total
Application completed for further professional educational programs relative to your career track**			12			12	

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Core Curriculum (Programmed Preferred Options in Bold)

Area B – Institutional Options 5 hrs

- i. AFRS 1501 Survey of African-American Experience 2 hrs
- ii. HUMN 1201 Critical Thinking & Communication 3 hrs

Area C – Humanities/Fine Arts, and Ethics 6 hrs

- 1. Select one of the following:
 - i. ENGL 2111 World Literature I 3 hrs
 - ii. ENGL 2112 World Literature II 3 hrs
 - iii. ENGL 2121 British Literature I 3 hrs
 - iv. ENGL 2122 British Literature II 3 hrs
 - v. ENGL 2131 American Literature I 3 hrs
 - vi. ENGL 2132 American Literature II 3 hrs
 - vii. ENGL 2222 African American Literature 3 hrs
 - viii. PHIL 2010 Introduction to Philosophy 3 hrs
 - ix. PHIL 2030 Introduction to Ethics 3 hrs
- 2. Select one of the following:
 - i. ARTS 1101 Introduction to Visual Art 3 hrs
 - ii. DNCE 2010 Dance Appreciation 3 hrs
 - iii. ENGL 2521 Introduction to Film 3 hrs
 - iv. HUMN 2011 Humanities 3 hrs
 - v. MUSC 1101 Introduction to Music 3 hrs
 - vi. THEA 2101 Introduction to Theatre 3 hrs

Area D – Natural Sciences, Math & Technology 19 hrs

- i. BIOL 1107/1107L Principles of Biology I 4 hrs
- ii. BIOL 1108/1108L Principles of Biology II 4 hrs
- iii. PHYS 2211K Principles of Physics I 4 hrs
- iv. PHYS 2212K Principles of Physics II 4 hrs

And select one of the following:

- v. CSCI 1130 Computer & Its Applications 3 hrs
- vi. CSCI 1301 Computer Science I 3 hrs
- vii. ENVS 1140 Environmental Issues, 3hrs
- viii. FSCI 1101 Intro to Mol. Forensic Sci. 3hrs

Area E - Social Science 12 hrs

- 1. POLS 1101 American Government 3 hrs
- 2. Select one of the following:
 - i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs
 - ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs
- 3. Select two of the following:
 - i. AFRS 2000 Introduction to Africana Studies 3 hrs
 - ii. ANTH 1101 Introduction to Anthropology 3 hrs
 - iii. ECON 2105 Principles of Macro-Economics 3 hrs
 - iv. GEOG 1101 Introduction to Human Geography 3 hrs
 - v. HIST 1111 World Hist to Early Modern Times 3 hrs
 - vi. HIST 1112 World History Early Modern Times to Pres 3 hrs
 - vii. POLS 2401 Global Issues 3 hrs
 - viii. PSYC 1101 Intro to General Psychology 3 hrs
 - ix. PSYC 2103 Human Growth & Development 3 hrs
 - x. SOCI 1101 Introduction to Sociology 3 hrs
 - xi. SOCI 1160 Social Problems 3 hrs