

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:

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

| | Fall Courses | | | Spring Courses | | | Notes |
|---|-----------------------|--|--------------|---|--|--------------|--|
| | Course | Name | Hours | Course | Name | Hours | |
| Sophomore | MATH 2111* Area T | 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 Area I | Critical Thinking & Communication | 3 | PHYS 2212K* Area T | Principles of Physics II Pre-requisite: PHYS 2211K | 4 | |
| | PHYS 2211K* Area T | 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 | Areas M, T (non-lab)* | | 3 | |
| | Areas A, S | | 3 | AFRS 1501 Area I | 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 | |

| | Fall Courses | | | Spring Courses | | | Notes |
|---------------|--|--|-------|-----------------------------|--|-------|--|
| | Course | Name | Hours | Course | Name | Hours | |
| Junior | CHEM 3101K* Major | Analytical Chemistry Pre-requisite: CHEM 1212/1212L | 4 | CHEM 3411K* Major | 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 Area P | American Government | 3 | |
| | HIST 2111 / 2112 Area P | U.S. History | 3 | Area I, P, A, S Elective | | 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) | | |

| | Fall Courses | | | Spring Courses | | | Notes |
|---|------------------------|---|-------|-----------------------------|--|-------|---|
| | Course | Name | Hours | Course | Name | Hours | |
| Senior | CHEM 3801* Major | Biochemistry Pre-requisite: CHEM 2511/BIOL 1108 | 3 | Area I, P, A, S Elective | | 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 | Area I, P, A, S Elective | | 3 | |
| | CHEM 4531* Major | Advanced Organic Chemistry Pre-requisite: | 3 | FSCI 4201* Major | Drug Abuse & Drug Analysis Pre-requisite: | 3 | **Some professional educational programs may need to be completed by the summer before the senior year. |
| | CHEM 4411* Major | Advanced Physical Chemistry Pre-requisite: | 3 | CHEM 4601* Major | Polymer Chemistry Pre-requisite: | 3 | Does this Degree Program Require a Minor? <u>No</u> |
| | CHEM 4901* Major | Chemical Seminar Pre-requisite: Junior or Senior | 1 | | | | Total Hours Required for this Degree Program: <u>122</u> |
| | 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

Area I – Institutional Options 5 hrs

- i. AFRS 1501 Survey of African American Experience 2 hrs

Select one of the following:

- ii. HUMN 1201 Critical Thinking & Communication 3 hrs
- iii. DATA 1501 Introduction to Data Science 3 hrs

Area A – 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 T – 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 P - Social Science 6 hrs

- 1. POLS 1101 American Government 3 hrs

And 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

Area S - Social Science 6 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