**Chemistry – Professional Concentration**2019-2021 Undergraduate Catalog

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| **Semester 1 - Fall** | | | | |
|  | Credits | Major | Other | GEP |
| CHEM 201 – General Chemistry I | 4 | X |  | C |
| BIOL 149 – General Biology | 4 |  |  | C |
| ENGL 101 – First-Year Composition | 3 |  |  | CS1 |
| MATH 236 – Calculus I | 4 | X |  | CS3 |
| ORIE 101 – Intro. To Higher Education | 1 |  | X |  |
|  |  |  |  |  |
| **Semester Total** | 16 |  | | |

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| **Semester 3 - Fall** | | | | |
| \*Fall Only | Credits | Major | Other | GEP |
| CHEM 311 – Organic Chemistry I | 3 | X |  |  |
| CHEM 312 – Organic Chemistry II | 1 | X |  |  |
| CHEM 304\* – Computational Tech | 2 | TF |  |  |
| IDIS 150 – First-Year FSU Colloquia | 3 |  |  | E |
| MATH 238 – Calculus III | 4 | X |  |  |
| GEP Social Science | 3 |  |  | D |
| **Semester Total** | 16 |  | | |

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| **Semester 5 - Fall** | | | | |
| \*Fall Only | Credits | Major | Other | GEP |
| BIOL 310\* – Cell Biology | 4 | X |  |  |
| CHEM 320\* - Quantitative Analytical | 4 | X |  |  |
| PHYS 215\* or PHYS 261\* | 4 | X |  | E |
| GEP Social Science | 3 |  |  | D |
|  |  |  |  |  |
|  |  |  |  |  |
| **Semester Total** | 15 |  | | |

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| **Semester 7 - Fall** | | | | |
| \*Fall Only | Credits | Major | Other | GEP |
| CHEM 441\* - Physical Chemistry I | 3 | X |  |  |
| CHEM 445\* - Physical Chemistry Lab I | 1 | X |  |  |
| CHEM 455\* - Biochemistry I | 3 | X |  |  |
| CHEM 491, 493, or 495 | 2 | X |  |  |
| Chemistry Elective | 3 | X |  |  |
| General Elective | 3 |  | X |  |
| **Semester Total** | 15 |  | | |

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| **Semester 2 - Spring** | | | | |
|  | Credits | Major | Other | GEP |
| CHEM 202 – General Chemistry II | 4 | X |  |  |
| MATH 237 – Calculus II | 4 | X |  |  |
| GEP Fine & Performing Arts | 3 |  |  | A |
| GEP Humanities | 3 |  |  | B |
|  |  |  |  |  |
|  |  |  |  |  |
| **Semester Total** | 14 |  | | |

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| **Semester 4 - Spring** | | | | |
| \*\*Spring Only | Credits | Major | Other | GEP |
| CHEM 321 – Organic Chemistry II | 3 | X |  |  |
| CHEM 322 – Organic Chemistry Lab II | 1 | X |  |  |
| CHEM 305\*\* – Research Methods | 3 | X |  |  |
| GEP Humanities | 3 |  |  | B |
| GEP Identity & Difference | 3 |  |  | F |
| General Elective | 3 |  | X |  |
| **Semester Total** | 16 |  | | |

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| **Semester 6 - Spring** | | | | |
| \*\*Spring Only | Credits | Major | Other | GEP |
| CHEM 421\*\* - Instrumental Analysis | 4 | X |  |  |
| ENGL 3xx – Advanced Writing | 3 |  |  | CS2 |
| PHYS 216\*\* or PHYS 262\*\* | 4 | X |  |  |
| Chemistry Elective | 3 | X |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
| **Semester Total** | 15 |  | | |

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| **Semester 8 - Spring** | | | | |
| \*\*Spring Only  1Spring Odd Years Only | Credits | Major | Other | GEP |
| CHEM 4111 – Inorganic Chemistry | 4 | X |  |  |
| CHEM 442\*\* - Physical Chemistry II | 3 | X |  |  |
| CHEM 446\*\* - Physical Chemistry Lab II | 1 | X |  |  |
| CHEM 492 – Capstone | 1 | X |  |  |
| General Elective | 3 |  | X |  |
| General Elective | 2 |  | X |  |
| **Semester Total** | 13 |  | | |

**Updated by/date:** Dr. Ben Norris, Chemistry, 5/15/19 **Total Credits:** 120