**Biology – Molecular Biology Concentration**2019-2021 Undergraduate Catalog

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| **Semester 1 - Fall** |
|  | Credits | Major | Other | GEP |
| BIOL 149 – General Biology | 4 | X |  | C |
| CHEM 201 – General Chemistry I | 4 | X |  | C |
| ENGL 101 – First-Year Composition | 3 | X |  | CS1 |
| MATH 220 or MATH 236 | 3 | X |  |  |
| ORIE 101 – Intro to Higher Education | 1 |  | X |  |
|  |  |  |  |  |
| **Semester Total** | 15 |  |

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| **Semester 3 - Fall** |
|  | Credits | Major | Other | GEP |
| BIOL 161 – Botany | 4 | X |  |  |
| BIOL 310 - Cell Biology | 4 | X |  |  |
| CHEM 311 – Organic Chemistry I | 3 | X |  |  |
| CHEM 312 – Organic Chemistry Lab I | 1 | X |  |  |
| IDIS 150 – First-Year FSU Colloquia | 3 |  |  | E |
|  |  |  |  |  |
| **Semester Total** | 15 |  |

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| **Semester 5 - Fall** |
| \*Fall Only | Credits | Major | Other | GEP |
| PHYS 215\* or PHYS 261\* | 4 | X |  | E |
| Technology Fluency Course | 3 |  | TF |  |
| GEP Humanities | 3 |  |  | B |
| GEP Social Science | 3 |  |  | D |
| General Elective | 3 |  | X |  |
|  |  |  |  |  |
| **Semester Total** | 16 |  |

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| **Semester 7 - Fall** |
| \*Fall Only2Fall Even Years Only | Credits | Major | Other | GEP |
| BIOL 304 - Microbiology | 4 | X |  |  |
| BIOL 4372 – Molecular Biology Seminar | 1 | X |  |  |
| CHEM 455\* - Biochemistry I | 3 | X |  |  |
| Molecular Biology Elective (2 of 2) | 3 | X |  |  |
| General Elective | 2 |  | X |  |
|  |  |  |  |  |
| **Semester Total** | 13 |  |

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| **Semester 2 - Spring** |
|  | Credits | Major | Other | GEP |
| BIOL 160 – Zoology | 4 | X |  |  |
| CHEM 202 – General Chemistry II | 4 | X |  |  |
| MATH 109 – Probability & Statistics | 3 | X |  | CS3 |
| GEP Fine and Performing Arts | 3 |  |  | A |
| General Elective | 3 |  | X |  |
|  |  |  |  |  |
| **Semester Total** | 17 |  |

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| **Semester 4 - Spring** |
| \*\*Spring Only | Credits | Major | Other | GEP |
| BIOL 435\*\* - Molecular Biology | 4 | X |  |  |
| CHEM 321 – Organic Chemistry II | 3 | X |  |  |
| CHEM 322 – Organic Chemistry Lab II | 1 | X |  |  |
| Molecular Biology Elective (1 of 2) | 4 | X |  |  |
| GEP Humanities | 3 |  |  | B |
|  |  |  |  |  |
| **Semester Total** | 15 |  |

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| **Semester 6 - Spring** |
| \*\*Spring Only1Spring Even Years Only | Credits | Major | Other | GEP |
| BIOL 350 – Genetics | 3 | X |  |  |
| BIOL 401 – Genetics Laboratory | 1 | X |  |  |
| BIOL 4381 – Biotechnology Lab | 3 | X |  |  |
| ENGL 3xx – Advanced Writing | 3 |  |  | CS2 |
| PHYS 216\*\* or PHYS 262\*\* | 4 | X |  |  |
|  |  |  |  |  |
| **Semester Total** | 14 |  |

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| **Semester 8 - Spring** |
| \*\*Spring Only | Credits | Major | Other | GEP |
| CEHM 456\*\* - Biochemistry Lab | 3 | X |  |  |
| CHEM 457\*\* - Biochemistry II | 3 | X |  |  |
| GEP Identity and Difference | 3 |  |  | F |
| GEP Social Science | 3 |  |  | D |
| General Elective | 3 |  | X |  |
|  |  |  |  |  |
| **Semester Total** | 15 |  |

**Updated by/date:** Dr. David Puthoff, Biology, 5/13/2019 **Total Credits:** 120