

BIOINFORMATICS

Minimum courses required: 13 plus a capstone experience

<u>Course requirement</u>	<u>Semester Taken</u>
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Biology

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| 1. BIO 112: Cells and Genes | _____ |
| 2. BIO 211: Genetics | _____ |
| 3. BIO 305: Biochemistry | _____ |
| 4. BIO 316: Molecular Biology and Biotechnology | _____ |

Chemistry

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| 5. CHEM 153: Chemical Principals | _____ |
| 6. CHEM 253: Organic Chemistry I | _____ |
| 7. CHEM 254: Organic Chemistry II | _____ |

Computer Science

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| 8. COMP 115: Robots, Games and Problem Solving | _____ |
| 9. COMP 116: Data Structures | _____ |

ONE from:

COMP 215: Algorithms
BIO 242: DNA

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| 10. _____ | _____ |
| 11. COMP 325: Database Systems | _____ |

Mathematics

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| 12. MATH 151: Accelerated Statistics | _____ |
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ONE from:

MATH 216: Computational Molecular Biology
MATH 241: Theory of Probability

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| 13. _____ | _____ |
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CAPSTONE (to be determined by faculty in your area of interest) _____

Recommended courses

BIO 219: Cell Biology
BIO 221: Microbiology and Immunology
BIO 254: Developmental Biology
BIO 303: Evolution
BIO 317: Molecular Ecology and Evolution

ECON 112: Introduction to Microeconomics

MATH 211: Discrete Mathematics

PHIL 111: Ethics

CHEM 355: Physical Chemistry I
CHEM 356: Physical Chemistry II

PHYS 170: Introductory Physics I
PHYS 171: Introductory Physics II