

Prehealth

Computer Science Majors

Requirements and Prerequisites:

| <i>Requirement</i> | <i>Prerequisites¹</i> |
|--|----------------------------------|
| V22.0101 Intro. to Comp. Sci. I | V22.0002 or permission |
| V22.0102 Intro. to Comp. Sci. II | V22.0101 |
| V22.0201 Computer System Org. I | V22.0102 |
| V22.0202 Computer System Org. II | V22.0201 |
| V22.0310 Basic Algorithms | V22.0102 and V63.0120 |
| V63.0121 Calculus I | V63.0009 or permission |
| V63.0120 Discrete Mathematics | V63.0121 |
| Five elective Computer Science courses | |

Prehealth Computer Science majors must also take the following:

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| V23.0011 Principles of Biology I | V25.0101 recommended corequisite |
| V23.0012 Principles of Biology II | V23.0011 or permission |
| V25.0101 General Chemistry I | V63.0009 |
| V25.0103 General Chemistry I Lab. | V25.0101 (pre- or corequisite) |
| V25.0102 General Chemistry II | V25.0101 (grade of "C" or better) |
| V25.0104 General Chemistry II Lab. | V25.0103, V25.0102 (pre- or corequisite) |
| V25.0243 Organic Chemistry I | V25.0102/4 (grades of "C" or better) |
| V25.0245 Organic Chemistry Lab. I | V25.0243 pre- or corequisite |
| V25.0244 Organic Chemistry II | V25.0243 (grade of "C" or better) |
| V25.0246 Organic Chemistry Lab. | V25.0245, V25.0244 pre- or corequisite |
| V85.0011 General Physics I | V63.0121 |
| V85.0012 General Physics II | V85.0011 (grade of "C-" or better) |
| One year of English | |

¹This is a somewhat abbreviated description of the prerequisites for these courses. For the latest and most detailed information you should refer to the College of Arts and Science Bulletin.

Recommended First Year Program:

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| V25.0101 General Chemistry I | 4 | V25.0102 General Chemistry II | 4 |
| V25.0103 General Chem. I Lab. | 2 | V25.0104 General Chem. II Lab. | 2 |
| V40.0100 Writing the Essay | 4 | V41.xxxx English Elective | 4 |
| V63.0121 Calculus I | 4 | V63.0120 Discrete Mathematics | 4 |
| V55.xxxx MAP: FCC I | 4 | V55.xxxx MAP: FCC II | 4 |

Recommended Four-Year Program:

First Year

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|----------|-------------------------|---|----------|-----------------------|---|
| V25.0101 | General Chemistry I | 4 | V25.0102 | General Chemistry II | 4 |
| V25.0103 | General Chem. I Lab. | 2 | V25.0104 | General Chem. II Lab. | 2 |
| V40.0100 | Writing the Essay | 4 | V41.xxxx | English Elective | 4 |
| V63.0121 | Calculus I | 4 | V63.0120 | Discrete Mathematics | 4 |
| V55.xxxx | MAP: FCC I ¹ | 4 | V55.xxxx | MAP: FCC II | 4 |

Second Year

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|----------|-------------------------------------|---|----------|--------------------------------------|---|
| V25.0243 | Organic Chemistry I ² | 4 | V25.0244 | Organic Chemistry II ² | 4 |
| V25.0245 | Organic Chem. Lab. I ^{2,3} | 2 | V25.0246 | Organic Chem. Lab. II ^{2,3} | 2 |
| V22.0101 | Intro. Comp. Sci. I | 4 | V22.0102 | Intro. Comp. Sci. II | 4 |
| V55.xxxx | MAP: FCC III | 4 | V55.xxxx | MAP: FCC IV | 4 |
| | Elective ² | 4 | | Elective ² | 4 |

Third Year

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|----------|--------------------------------------|---|----------|---------------------------------------|---|
| V22.0201 | Comp. Syst. Org. I | 4 | V22.0202 | Comp. Syst. Org. II | 4 |
| V23.0011 | Principles of Biology I ² | 4 | V23.0012 | Principles of Biology II ² | 4 |
| V85.0011 | General Physics I ² | 5 | V85.0012 | General Physics II ² | 5 |
| | Foreign Language I ⁴ | 4 | | Foreign Language II ⁴ | 4 |

Fourth Year

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|----------|-----------------------------------|---|----------|----------------------------------|---|
| V22.0310 | Basic Algorithms | 4 | V22.xxxx | Comp. Sci. Elective | 4 |
| V22.xxxx | Comp. Sci. Elective | 4 | V22.xxxx | Comp. Sci. Elective | 4 |
| V22.xxxx | Comp. Sci. Elective | 4 | | Elective | 4 |
| | Foreign Language III ⁴ | 4 | | Foreign Language IV ⁴ | 4 |

Comments:

¹Students with no Advanced Placement Credit in either calculus or chemistry who wish to major in Computer Science but must take a Freshman Seminar, may request permission to delay taking FCC I.

²You may choose a different combination of Biology, Organic Chemistry, Electives and Physics during the second and third years; however, the arrangement given here is preferred by most students.

³Whereas General Chemistry I and II *must* be accompanied by the corresponding laboratory courses, the Organic Lab. course may be taken either with or *after* the lecture course. A student who is having some difficulty with the sciences may find it advantageous to defer the laboratory until a later date. A solid grounding in the theory of organic chemistry will make for a far better understanding of the subject by the time the laboratory is completed.

⁴You may prefer to take two *intensive* language courses (6 points each) rather than four 4-point courses.