COMPUTER SCIENCE-BIOINFORMATICS

Through the Path to Purple Program, students can complete this Bachelor of Science degree in its entirety in Rochester by completing lower division credits at Rochester Community and Technical College and the major’s upper division credits at Winona State University-Rochester. The Computer Science-Bioinformatics major is in-depth and requires no minor. Incoming transfer students should consult with a Computer Science advisor before registering for courses. All required courses and elective courses for a major/minor must be taken for a letter grade except for CS 491.

To graduate with a Bachelor of Science in Computer Science-Bioinformatics, a minimum of 120 semester credits are required. Eighty (80) credits can be transferred from a two-year institution; however, a baccalaureate degree must include 40 credits of upper division coursework. At least 30 semester credits must be taken from Winona State University during the junior and senior years combined, and students must be enrolled the semester of graduation.

Applied Computer Science classes are designed to give students an understanding and appreciation for both theoretical and applied Computer Science which will prepare them for careers in industry or further study at the graduate level.

Prerequisites

The prerequisites for Computer Science-Bioinformatics courses must be met with a "C" grade or better. Students who have not met the prerequisites with a grade of "C" or better before the course begins will be dropped from that class.

Entrance Requirements

All students applying for entrance to the Computer Science-Bioinformatics major shall have completed the following courses with a "C" grade or better in each and shall have a minimum GPA of 2.25 for the following three courses:

<table>
<thead>
<tr>
<th>WSU Courses</th>
<th>RCTC Equivalents</th>
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<tbody>
<tr>
<td>CS 234 Algorithms and Problem Solving I</td>
<td>COMP 2243 Programming and Problem Solving</td>
</tr>
<tr>
<td>CS 250 Algorithms and Problem Solving II</td>
<td>COMP 2247 Algorithms and Data Structures</td>
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<tr>
<td>CS 275 Math Foundations of Algorithms</td>
<td>MATH 2218 Discrete Mathematics and Foundations</td>
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Applicants must have a minimum overall GPA of 2.5. In addition to these requirements, the student must meet with a department advisor and complete a Department Major Application form.

Before acceptance to an Applied Computer Science major, all students are given provisional status and will be assigned advisors in the same way as students who are accepted majors. Students interested in becoming an Applied Computer Science major should ask to be assigned an advisor as soon as possible.

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Graduation Requirements

I. Students must have an overall GPA of at least 2.5. The cumulative GPA for all Applied Computer Science major requirements and electives must be at least 2.5. Each course must be completed with a grade of "C" or better (except CS 491).

II. At least 18 credit hours from non-core course requirements or electives at or above the 300 level must be earned from WSU. Courses taken through the Minnesota State University Common Market Program do not satisfy this requirement.

III. Meet all WSU general graduation requirements.

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