COMPUTER INFORMATION SYSTEMS

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 CIS 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 Information Systems, 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.

Computer Information Systems (CIS) involves the study of business-related processes and software. An integral component of this track is web programming, both client-side and server-side technologies, and also component-based-reusable software architectures. These topics are important in the development of software to support E-business applications.

**Prerequisites**

The prerequisites for Computer Information Systems 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 a Computer Information Systems 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 a 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 a Computer Information Systems major should ask to be assigned an advisor as soon as possible.

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Graduation Requirements

1. Students must have an overall GPA of at least 2.5. The cumulative GPA for all 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).

2. 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.

3. Meet all WSU general graduation requirements.

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