Background
Metropolitan State’s Computer Application Development (CApp) major provides a foundation of the conceptual and practical knowledge in the various aspects of application design and implementation. Course work to develop analytical and problem-solving skills is complemented by an experiential component.

The CApp major enables students to become developers who can deploy appropriate technology to solve problems in businesses and organizations. Individuals with strong backgrounds of technical and analytical skills, effective communication abilities, and project development knowledge are in demand as the information needs of the world continue to grow.

Careers
CApp majors can go on to pursue careers as web developers, database application developers, enterprise application developers, and general application programmers.

The graduates will have strong writing and presentation skills and also have a sense of societal and ethical responsibility in their professional endeavors.

Program
The program admits a limited number of students every summer. To be eligible for acceptance to the Computer Application Development major, students must submit a College of Arts and Sciences Undergraduate Program Declaration Form when the following is completed:

Received an AS in Computer Science or AAS in Computer Programming from approved programs. (Contact the department for the list.) OR

Completed the following courses (with a grade of C- or better for all MATH and ICS courses)
- ICS 140 Programming Fundamentals
- ICS 141 Programming with Objects
- ICS 225 Web Design and Implementation
- MATH 115 College Algebra or MATH 120 Precalculus
- MATH 215 Discrete Mathematics

Major Requirements
Students who do not meet the requirements above or are on academic probation will not be accepted to the major. Students not accepted to the major will not be allowed to take upper-division ICS courses.

Other Program Requirements Major
- ICS 311 Database Management Systems
- ICS 325 Internet Application Development OR ICS 425 Client Server Architectures
- ICS 350 Information and Computer Sciences Individualized Internship
- ICS 370 Software Design Models

Lower Division/ Upper Division Electives
Twelve credits must be upper division. See catalog for listing.

Undergraduate Catalog
Chemistry Major Requirements, Course Descriptions, and Major Checklist
www.metrostate.edu/msweb/explore/catalog/undergrad/

Department of Information and Computer Sciences
www.metrostate.edu/msweb/explore/cas/departments/csci/index.html

Department contact information:
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A member of the Minnesota State Colleges and Universities system
This information is available in alternative formats for individuals with disabilities by calling 651-793-1549. Information is subject to change without notice.
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