

**The College at Brockport, State University of New York**  
**Department of Computer Science**

**Computer Information Systems Major**

**Program Requirements**

**Prerequisites**

The first courses in the program are CSC 203 (Fundamentals of Computer Science I) and CIS 202 (Fundamentals of Information Systems). The prerequisites for these courses are CSC 120 (Introduction to Computer Science), CIS 106 (End-user Computing), and MTH 122 (Pre-calculus), or equivalents by permission of the instructor. Students not having these prerequisite courses should plan on one or two preparatory semesters in which to take them.

MTH 122 Pre-calculus	3 credits
CSC 120 Introduction to Computer Science	3 credits
CIS 106 End-user Computing	3 credits

**Requirements**

For a major in Computer Information Systems (CIS), a student must complete the following 65 credits of computer science, computer information systems, mathematics, and information systems environment courses with an average grade of “C” or better in core and elective courses. In addition, the grade for each of CSC 203, CSC 205, CSC 209, CIS 202, CIS 206, and CIS 303 must be “C” or better. Other restrictions apply; see "Restrictions on Credits in the Major," below.

(a) Core courses (35 credits)

CSC 203 Fundamentals of Computer Science I	4 credits
CSC 205 Fundamentals of Computer Science II	4 credits
CSC 209 UNIX Tools	1 credit
CSC 486 Junior/Senior Seminar	3 credits
CIS 202 Fundamentals of Information Systems	3 credits
CIS 206 Information Technology Tools	1 credit
CIS 303 Information Technology – Hardware and Software	3 credits
CIS 317 Analysis and Logical Design of IS	4 credits
CIS 419 Computer Networks and Internet applications	3 credits
CIS 422 Physical Design and Implementation with DBMS	3 credits
CIS 427 Project Management and Practice	3 credits
CIS 442 Electronic Commerce Systems	3 credits

(b) Elective courses (6 credits)

Two courses from the list of CIS courses numbered 400-489, selected under advisement. See notes below.	6 credits
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(c) Mathematics co-requisites (9 credits)

MTH 243 Elementary Statistics	3 credits
MTH 281 Discrete Mathematics I	3 credits
One MTH course, selected from MTH 201, 221, 441, 461	3 credits

(d) Information systems environment co-requisites (15 credits)

15 credits of course work under one of the two options: 15 credits

Business Administration: ACC 280 or ACC 281 or ACC 282, BUS 325, BUS 335, BUS 365, and one BUS course from BUS 345-389, 420-475

Healthcare Administration: ACC 280 or ACC 281 or ACC 282, BUS 365, HLS 410, HLS 412, and HLS 413

Total 65 credits

### **Restrictions on Credits in the Major**

1. At least 18 of the credits used to satisfy the core or elective requirements in the major must be earned at Brockport.
2. Credits (1-4) for at most one course can be earned by "departmental credit by examination."

### **Electives Available**

CIS 404 Multimedia and Human-Computer Interaction	3 credits
CIS 421 Computer and Network Security	3 credits
CIS 434 Decision Support and Expert Systems	3 credits
CIS 436 Data Mining	3 credits
CIS 487 Information Technology for Development	3 credits