Morris Campus

Computer Science Minor

Division of Science & Mathematics - Adm

Division of Science and Mathematics

- Program Type: Undergraduate minor related to major
- Requirements for this program are current for Fall 2017
- Required credits in this minor: 26

Objectives--The computer science curriculum is designed to provide students with a strong foundation in the diverse and rapidly changing field of computing. The science of computing is emphasized with a focus on fundamental principles and the formal underpinnings of the field. Students are encouraged to use and supplement their formal education through a variety of research opportunities, participation in discipline colloquia and student/professional organizations, and pursuit of internship experiences or international studies opportunities.

Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

Minor Requirements

No more than two courses with a grade of D or D+, offset by an equivalent number of credits of A or B grades, may be used to meet the requirements for a computer science minor. Non-elective courses taken S-N may not be counted towards the minor. A minimum GPA of 2.00 is required in the minor in order to graduate. The GPA includes all, and only, University of Minnesota coursework. Grades of "F" are included in GPA calculation until they are replaced.

Required Courses

CSCI 1201 *{Inactive}*[M/SR] (4.0 cr)
or CSCI 1301 - Problem Solving and Algorithm Development [M/SR] (4.0 cr)
CSCI 1302 - Foundations of Computer Science [M/SR] (4.0 cr)
or MATH 2202 - Mathematical Perspectives [M/SR] (4.0 cr)
MATH 3411 - Discrete and Combinatorial Mathematics (4.0 cr)
CSCI 2101 - Data Structures [M/SR] (5.0 cr)

Required Elective Courses

Take 5 or more credit(s) from the following:
- CSCI 3413 - Computing Systems: Concepts (3.0 cr)
- CSCI 3412 - Computing Systems: Practicum (2.0 cr)
- CSCI 3501 - Algorithms and Computability (5.0 cr)
- CSCI 3601 - Software Design and Development (5.0 cr)

Take 4 or more credit(s) from the following:
- CSci 3xxx
- CSci 4xxx

Minor Elective Courses

Take 4 or more credit(s) from the following:
- CSCI 2701 - Introduction to Data Science [M/SR] (4.0 cr)
- MATH 1021 - Survey of Calculus [M/SR] (4.0 cr)
- MATH 1101 - Calculus I [M/SR] (5.0 cr)
- MATH 1102 - Calculus II [M/SR] (5.0 cr)
- MATH 2101 - Calculus III [M/SR] (4.0 cr)
- MATH 3111 - Linear Algebra (4.0 cr)
- MATH 2202 - Mathematical Perspectives [M/SR] (4.0 cr)
- MATH 2401W - Differential Equations [M/SR] (4.0 cr)
- MATH 2501 - Probability and Stochastic Processes [M/SR] (4.0 cr)
- MATH 3xxx
- MATH 4xxx
- STAT 1xxx
- STAT 2xxx
- STAT 3xxx
- STAT 4xxx

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