



Jeremy Morris Assistant Professor of Practice Dept. of Computer Science & Engineering

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February 12, 2024

To: Arts & Sciences Curriculum Committee

Re: Changes to CIS Minor

We are requesting the following changes to the CIS Minor program, effective Summer 2024: Change the name of the minor to Computer Science (CS) Remove the requirement for CSE 2501 from the list of required courses for the minor Alter the list of recommended courses for minors to take as electives

The CSE faculty unanimously approved these changes.

Rationale for the name change: The Computer & Information Science minor (CIS) as currently constructed does not contain any actual Information Science within it. All of the required coursework is pure Computer Science. To better serve students enrolling in the minor, and those who read their transcripts, a decision was made to change the name of the minor to be the Computer Science minor, which more accurately reflects its contents.

Rationale for the removal of CSE 2501: Our minor is a comparatively large one with a requirement of 17 credit hours for students. One of the current required courses is a 1 credit hour ethics course that fulfils a role as a professional ethics course for our major students. This is a class designed to be taught in small sections to CIS & CSE majors who will become practitioners in various computing fields. In recent years enrollments in our major have grown quite large and the capacity of these courses has been strained. Because of our enrollment issues, and the need for majors to take this course, we have been waiving this requirement for minors due to their inability to actually enroll in any sections of this course. We would like to make this change permanent for all minors as we feel that the 16 hour minor is sufficient to give students the breadth of coverage we want to see in a minor. For students in the minor who are interested in the topics of this course we suggest PHIL 2338 as an alternative.

Rationale for the changes to our suggested elective courses: We previously listed a number of "tracks" that our minors could take. Unfortunately these tracks often contained courses that had pre-requisite requirements that our minor students could not attain without additional coursework that took them well beyond the coursework for a minor. Additionally, due to enrollment pressures as discussed above many of these pre-requisite courses were courses that minor students were consistently shut out of. In place of the tracks we now prefer to recommend a selection of courses that we can guarantee that students pursuing the minor will be able to enroll in. Minor students can still enroll in any CSE course for which they meet the pre-requisites, but the courses listed as recommended present a broad coverage of Computer Science topics, but also are courses that we can make guarantees that minors will be able to enroll in.

I have included both the new and current curriculum sheets for our minor with changes tracked.

If you have any further questions, please contact me at morris.343@osu.edu.

Sincerely,

Jeremy Morris

Assistant Professor of Practice Computer Science & Engineering

CSE Undergraduate Studies Committee Chair

## The Ohio State University <u>College of Arts & Sciences and</u> College of Engineering

#### Computer Science (COMPSCI-MN)

Department of Computer Science & Engineering, 395 Dreese Laboratories, 2015 Neil Avenue Columbus, OH 43210-1277; 614-292-1900

https://cse.osu.edu

compsciadvising@osu.edu

Students interested in applying computing principles and practices in another discipline (in which they may be completing a major degree program) should consider completing the—Computer Science (CS) Minor program. The program described below applies to students who begin the minor courses in -Summer 2024 or later.

Students pursuing the minor do not have priority enrollment in CSE courses.

#### A. Prerequisites for the Minor:

CSE 1222: Introduction to Computer Programming in C++ (3 cr hrs); *or* 

CSE 1223: Introduction to Computer Programming in Java (3 cr hrs)

#### B. Requirements for the Minor (min 16 cr hrs):

- 1. Required courses (10 credit hours):
  - a. Software:

CSE 2122, Data Structures Using C++, (3 cr hrs);

CSE 2123, Data Structures Using Java (3 cr hrs).

b. Foundations:

CSE 2321, Foundations I: Discrete Structures (3 cr hrs)

c. Systems:

ČSE 3430, Overview of Computer Systems For Non-Majors (4 cr hrs)

- 2. Elective courses (minimum: 6 cr hrs):
  - i. Must be chosen from CSE 2331, and CSE courses at the 3000-level or above;
  - ii. Not more than 2 cr hrs of CSE 425X courses;
  - iii. The following courses are recommended:
    - 2331 Foundations II
    - 3241 Introduction to Database Systems
    - 4471 Information Security
    - 5052 AI for non-majors

Note that elective courses for this minor may have additional prerequisites,

### Computer Science minor program guidelines

<u>Credit hours required</u> A minimum of 16 cr hrs. 1000 level courses shall not be counted in the minor. At least 6 cr hrs need to be at the 3000 level or above.

## Transfer and EM Credit Hours Allowed

A student is permitted to count up to 6 total hours of transfer credit and/or credit by examination toward the minor.

Overlap with the GE A student is permitted to overlap up to 6 cr hrs between the GE and the minor

#### Overlap with the Major and Additional Minor(s)

- The minor must be in a different subject than the major.
- The minor must contain a minimum of 12 hours distinct from the major and/or additional minors.

#### Grades Required

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative GPA for all minor course work
- Course work graded Pass/Non-Pass cannot count on the minor.
- No more than 3 cr hrs of course work graded Satisfactory/Unsatisfactory may count towards the minor.

X193 Credits No more than 3 cr hrs

Minor Approval Please email the CS Undergraduate Advising Office at compsciadvising@osu.edu to request a minor program form. Students with questions about the minor can contact the CS Undergraduate Advising Office at the above email and/or refer to the CSE website for more information: https://cse.osu.edu/

<u>Filing the Minor Program Form</u> Students are encouraged to have their major advisor or college/school advisor add the minor to their record after completion of MATH 1151 (Calculus 1) and either CSE 1222 or 1223. The minor program form *must* be filed at least by the time the graduation application is submitted to a college/school advisor.

<u>Changing the Minor</u> Once the minor program is filed in the college office, any changes must be approved by the academic unit offering the minor.

College of Arts and Sciences Curriculum and Assessment Services 306 Dulles Hall, 230 Annie & John Glenn Ave. http://artsandsciences.osu.edu

Received 2/27/12 DH Updated 1/31/14 DH Rev approved CAA 11/4/15 Update 6/9/21B DH

<u>Update 3/22/24</u>

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# The Ohio State University College of Arts & Sciences and College of Engineering

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