For Registrar's Office use only

Status: Approved ☐ Not Approved ☐

Email sent to student on _____

Earlham College
OFFICE OF THE REGISTRAR

Declaring/Changing a Major, Minor, or Applied Minor

Section A: Policies and Instructions

Declaring a Major:

1. Students are required to file a declaration of major at the Registrar's Office no later than the end of their fourth semester.
2. A late fee of $25.00 will be charged if the petition is submitted after the deadline.
3. A declared major may be changed at any time up to the add/drop deadline of the student's final semester by submitting a new major declaration form.

Declaring a Minor:

1. Minors are optional programs, you are not required to have a minor to graduate.
2. The deadline for declaring a minor is the 5th day of classes of the spring semester of the senior year.
3. Students must declare their Major Field of concentration before declaring a minor.

Declaring an Applied Minor:

1. Applied minors are optional programs, they are not required for graduation.
2. The deadline for declaring an applied minor is the 5th day of classes of the spring semester of the senior.

Progress towards completion of a major, a minor, and an applied minor will be tracked in DegreeWorks.

Complete Section B below and the relevant program section. Next to each requirement, indicate which semester (e.g. Fall 2023) you have taken or will take that course.

Your form must be signed by the Department/Program and your academic advisor (must be in your field of study for your major).

Section B: Student Information

Student Name _____ ID# _____

Email _____ Date _____

Planned Date of Graduation: May _____ December _____ Year: _____

Select one:

_____ I wish to declare my primary Major
_____ I wish to declare a Minor
_____ I wish to declare a second Major
_____ I wish to declare an Applied Minor
_____ I wish to change my Major

Computer Science

Use this form to declare a major or a minor in Computer Science .

Program Computer Science

Declaration/Change of Major

To earn a Bachelor of Arts in Computer Science, you must complete the following courses, in addition to general education requirements:

Core courses (28 credit hours)

Course Code	Course Title	Credit Hours	Semester
☐ MATH 180	Calculus A	4	
☐ MATH 195	Math Toolkit	2	
☐ CS 128	Programming & Problem Solving	4	
☐ CS 256	Data Structures	4	
☐ CS 266	Computing Skills	1	
☐ CS 310	Algorithms	3	
☐ CS 320	Principles of Computer Organization	3	
☐ CS 388	Methods For Research and Dissemination in Computer Science	3	
☐ CS 488	Senior Seminar	3	

Four additional CS courses (12 credits hours) from the following:

Course Code	Course Title	Credit Hours	Semester
☐ CS 335	Advanced Data Structures	3	
☐ CS 345	Software Engineering	3	
☐ CS 350	Electronics & Instrumentation	3	
☐ CS 355	Computer Game Design	3	
☐ CS 360	Parallel & Distributed Computation	3	
☐ CS 365	Artificial Intelligence and Machine Learning	3	
☐ CS 375	Cyberethics in the Current Age	3	
☐ CS 410	Networks & Networking	3	
☐ CS 420	Operating Systems	3	
☐ CS 430	Database Systems	3	
☐ CS 440	Programming Languages	3	

☐ CS 382/482	Special Topics	3
☐ CS 481	Internship (requires departmental approval)	0-3

In exceptional cases, the department may allow

Course Code	Course Title	Credit Hours	Semester
☐ CS 484	Faculty/Student Collaborative Research	1-3	
☐ CS 485	Independent Study	1-3	
☐ CS 486	Student Research	1-3	

Concentrations

Beginning in the 2022-23 academic year, students majoring in computer science have the option to focus their studies in one of four areas of concentration:

- Computing for social good
- Cybersecurity
- Game design
- Systems engineering and administration

Your academic adviser can help you understand the requirements for each concentration area.

Computing for Social Good

Course Code	Course Title	Credit Hours	Semester
☐ MATH 180	Calculus A	4	
☐ MATH 195	Math Toolkit	2	
☐ CS 128	Programming & Problem Solving	4	
☐ CS 256	Data Structures	4	
☐ CS 266	Computing Skills	1	
☐ CS 275	Computing for Social Good	3	
☐ CS 310	Algorithms	3	
☐ CS 320	Principles of Computer Organization	3	
☐ CS 375	Cyberethics in the Current Age	3	
☐ CS 388	Methods For Research and Dissemination in Computer Science	3	
☐ CS 488	Senior Seminar	3	
☐ Three additional courses drawn from a selection from Computer Science and other disciplines			

Students may declare a concentration in CS for Social Good if they are graduating in Spring 2025 or later. Students graduating earlier than this who are interested in this field should speak with their advisor about how to best position themselves in this area, but cannot declare a concentration.

Cybersecurity

The Computer Science department plans to make Cybersecurity available as a concentration for students graduating in Spring 2026 or later. Students graduating earlier than this who are interested in this field should speak with their advisor about how to best position themselves in this area, but cannot declare a concentration.

Game Design

Course Code	Course Title	Credit Hours	Semester
☐ MATH 180	Calculus A	4	
☐ MATH 195	Math Toolkit	2	
☐ CS 128	Programming & Problem Solving	4	
☐ CS 256	Data Structures	4	
☐ CS 266	Computing Skills	1	
☐ CS 310	Algorithms	3	
☐ CS 320	Principles of Computer Organization	3	
☐ CS 355	Computer Game Design	3	
☐ CS 388	Methods For Research and Dissemination in Computer Science	3	
☐ CS 488	Senior Seminar	3	
☐ Three additional courses drawn from a selection from Computer Science and other disciplines			

*CS 355: Students should endeavor to take this course as early in the sequence as their schedule allows.

A student's Capstone project, proposed in CS 388 and executed in CS 488, should tie in to the field of Computer Game Design in some way.

If a student's schedule permits, they are strongly encouraged to take CS 455, Game Design Studio, to deepen their understanding of the material and further strengthen their portfolio. This course is offered as a stacked class with CS 355.

Students may declare a concentration in Computer Game Design if they are graduating in Spring 2025 or later. Students graduating earlier than this who are interested in this field should speak with their advisor about how to best position themselves in this area, but cannot declare a concentration.

Systems Administration

Course Code	Course Title	Credit Hours	Semester
☐ MATH 180	Calculus A	4	
☐ MATH 195	Math Toolkit	2	
☐ CS 128	Programming & Problem Solving	4	
☐ CS 256	Data Structures	4	
☐ CS 266	Computing Skills	1	

☐ CS 310	Algorithms	3
☐ CS 320	Principles of Computer Organization	3
☐ CS 388	Methods For Research and Dissemination in Computer Science	3
☐ CS 488	Senior Seminar	3
☐ CS 325	Systems Engineering & Administration	3
☐ CS 425	Advanced Topics In Systems Engineering and Administration	

Minor/Applied Minor Declaration Form

Declared Major(s) _____

To earn a minor in computer science, you must complete the following courses:

Course Code	Course Title	Credit Hours	Semester
☐ MATH 195	Math Toolkit	2	
☐ CS 128	Programming & Problem Solving	4	
☐ CS 256	Data Structures	4	
☐ CS 310	Algorithms	3	

Three additional CS courses, 300 and above, excluding:

Course Code	Course Title	Credit Hours	Semester
☐ CS 481	Internship (requires departmental approval)	0-3	
☐ CS 483	Teaching Assistant	1-3	
☐ CS 484	Faculty/Student Collaborative Research	1-3	
☐ CS 485	Independent Study	1-3	
☐ CS 486	Student Research	1-3	

In exceptional cases, the department may waive the exclusion of CS 484, CS 485 or CS 486.

This student is hereby approved to pursue a major _____ / minor _____ in accordance to the above plans (please enter your full name below).

Academic advisor _____ Date _____

Department/Program Convener _____ Date _____

This completed form must be emailed to registrar@earlham.edu for processing. Your adviser and the Department/Program Convener must be copied on the email.

Registrar _____ Date _____