For Registrar's Office use only

Earlham College
OFFICE OF THE REGISTRAR

Status: Approved ☐ Not Approved ☐

Email sent to student on _____

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

Data Science

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

Declaration/Change of Major

To earn a Bachelor of Arts in data science, you must complete the following courses, in addition to general education requirements.

The data science major consists of 13 courses (42 credits) with 12 core courses (39 credits):

Course Code	Course Title	Credit Hours	Semester
☐ MATH 120	Fundamentals of Statistics	3	
☐ MATH 180	Calculus A	4	
☐ MATH 280	Calculus B	4	
☐ MATH 310	Linear Algebra	3	
☐ CS 128	Programming & Problem Solving	4	
☐ CS 256	Data Structures	4	
☐ CS 310	Algorithms	3	
☐ CS 430	Database Systems	3	
☐ MATH 195	Math Toolkit	2	
☐ MATH 300	Mathematical Statistics	3	
☐ DS 401	Statistical Modeling for Data Science	3	
☐ DS 488	Senior Capstone	3	

*MATH 280: optional but strongly recommended

and one of the following courses (3 credits):

Course Code	Course Title	Credit Hours	Semester
☐ CS 345	Software Engineering	3	
☐ CS 360	Parallel & Distributed Computation	3	
☐ CS 365	Artificial Intelligence and Machine Learning	3	
☐ CS 383	Bioinformatics	4	
☐ DS 481	Internship	3	
☐ MATH 330	The Art and Science of Math Modeling	3	
☐ BIOL 410 or ENSU 310	Applications of GIS	3	
☐ PSYC 245	Research Methods & Statistics	4	

☐ ECON 305	Econometrics	3	

Minor/Applied Minor Declaration Form

Declared Major(s) _____

To earn a minor in data science, you must complete 24 credits (28 with credit inflation).

Course range: 7 courses

Course Code	Course Title	Credit Hours	Semester
☐ MATH 120	Fundamentals of Statistics	3	
☐ MATH 180	Calculus A	4	
☐ CS 128	Programming & Problem Solving	4	
☐ CS 256	Data Structures	4	
☐ MATH 300 Mathematical Statistics OR MATH 330 Mathematical Modeling		3	
☐ DS 401 Data Science OR CS 430 Database Systems OR CS 365 Artificial Intelligence and Machine Learning		3	

One of the following courses (each 3 credits):

Course Code	Course Title	Credit Hours	Semester
☐ Any additional course from items 5 or 6 above			
☐ CS 310	Algorithms	3	
☐ CS 340	Robotic Animals	4	
☐ CS 345	Software Engineering	3	
☐ CS 360	Parallel & Distributed Computation	3	
☐ CS 383	Bioinformatics	4	
☐ DS 481	Internship	3	
☐ BIOL 410 or ENSU 310	Applications of GIS	3	
☐ PSYC 245	Research Methods & Statistics	4	
☐ ECON 305	Econometrics	3	

*CS 310 Algorithms (required for the CS 430 option in item 6)

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 _____