*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

# Biochemistry

Use this form to declare a major in Biochemistry .

## Declaration/Change of Major

To earn a Bachelor of Arts in biochemistry, you must complete the following courses.

All of the following chemistry courses:

| Course Code | Course Title | Credit Hours | Semester |
|---|---|---|---|
| ☐ CHEM 111 | Principles of Chemistry | 4 | |
| ☐ CHEM 221 | Organic Chemistry I | 4 | |
| ☐ CHEM 321 | Organic Chemistry II | 4 | |
| ☐ CHEM 331 | Equilibrium & Analysis | 5 | |
| ☐ CHEM 351 | Biochemistry | 4 | |

One of the following in chemistry

| Course Code | Course Title | Credit Hours | Semester |
|---|---|---|---|
| ☐ CHEM 341 | Thermodynamics & Kinetics | 4 | |
| ☐ CHEM 361 | Inorganic Chemistry | 3 | |
| ☐ CHEM 371 | Environmental Chemistry & Toxicology | 4 | |
| ☐ CHEM 431 | Advanced Analytical Chemistry | 4 | |
| ☐ CHEM 451 | Adv Biochemistry of Proteins and Nucleic Acids | 4 | |

Other special courses as offered by prior arrangement with chemistry faculty

Both of the following biology courses:

| Course Code | Course Title | Credit Hours | Semester |
|---|---|---|---|
| ☐ BIOL 112 | Cells, Genes & Inheritance | 4 | |
| ☐ BIOL 341 | Cell Physiology | 4 | |

At least one course from each of the two lists that follow, totaling at least 7 credits:

**Choose one from:**

| Course Code | Course Title | Credit Hours | Semester |
|---|---|---|---|
| ☐ BIOL 226 | Biological Diversity | 4 | |

| | | |
|---|---|---|
| ☐ BIOL 348 | Ornithology | 3 |
| ☐ BIOL 460 | Plant Cell Biology | 3 |
| ☐ BIOL 461 | Microbiology | 4 |
| ☐ BIOL 462 | Parasitology | 4 |
| ☐ BIOL 465 | RNA Biology | 4 |

**And choose one from:**

| Course Code | Course Title | Credit Hours | Semester |
|---|---|---|---|
| ☐ BIOL 343 | Immunology | 3 | |
| ☐ BIOL 345 | A&P I: Nervous and Endocrine Systems | 4 | |
| ☐ BIOL 347 | Anatomy and Physiology II: Cardiovascular, Respiratory, Renal and Digestive | 4 | |
| ☐ BIOL 351 | Human Genetics & Genomics | 3 | |
| ☐ BIOL 383 | Bioinformatics | 4 | |
| ☐ BIOL 464 | Advanced Cell Physiology | 4 | |
| ☐ BIOL 466 | Molecular Genetics | 4 | |

Other special courses as offered by prior arrangement with biology faculty

Additional Requirements

| Course Code | Course Title | Credit Hours | Semester |
|---|---|---|---|
| ☐ MATH 180 Calculus A OR MATH 120 Elementary Statistics OR MATH 300 Advanced Statistics OR PSYC 245 Research Methods and Statistics | | 3-5 | |
| ☐ Either PHYS 125 and 235 Analytical Physics I and II (recommended); OR PHYS 120 and 230 General Physics I and II | | 8 | |
| ☐ Either BIOL 480 Biology Senior Seminar OR CHEM 480 Chemistry Senior Seminar | | 2 | |

- An independent research project is also required. This may be accomplished as an independent study in biology or chemistry, as a summer research experience on-or off-campus, as an approved Ford/Knight Research Project. Careful early planning with your adviser will determine the best option for your research experience. A presentation of the research in a public forum is expected.
- Comprehensive examinations must also be successfully completed.

Note: Students with AP, IB or transfer credits in chemistry, biology, physics or calculus should be in contact with a faculty member in a related program.

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 _____