

Status: Approved \square 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: Ma	y December Year:	
Select one:		
I wish to decla I wish to decla I wish to decla I wish to decla I wish to chan	are a Minor are a second Major are an Applied Minor	

Engineering

Use this form to declare a major in **Engineering**.

Program Engineering

Declaration/Change of Major

Bachelor of Engineering				
To earn a Bachelor of Engineering (designed for ABET accreditation), you must complete the following courses, in addition to general education requirements:				
Five core engineering courses (19 - 20 credits)				
Course Code	Course Title	Credit Hours	Semester	
☐ ENGR 111	Intro to Engineering	4		
☐ ENGR 270	Engineering Mechanics	4		
☐ ENGR 290 Mass and Heat Transfer 4				
LINGIN 230	☐ ENGR 350 Circuit Theory 4			

One of the follo	owing two courses:		
Course Code	Course Title	Credit Hours	Semester
☐ ENGR 306	Engineering Thermodynamics	4	
☐ ENGR 374	Engineering Fluid Mechanics	3	

Eight core mathematics and basic science courses (30 credits)			
Course Code	Course Title	Credit Hours	Semester
☐ PHYS 125	Matter in Motion (with Calculus)	4	
☐ PHYS 235	Electromagnetism, Waves and Optics (With Calculus)	4	
☐ MATH 180	Calculus A	4	
☐ MATH 280	Calculus B	4	
☐ MATH 320	Differential Equations	4	
☐ CS 128	Programming & Problem Solving	4	
☐ PHYS 360	Mathematical Methods and Physics	3	
	☐ One of the following courses: BIOL 111, BIOL 112, CHEM 111, or GEOL 201		

A minimum of 20 elective credits

A required independent research project or internship, which must be pre-approved by the
program, and may be accomplished as a research class in Physics, Earth and Environmental
Science, Chemistry, Biology, Computer Science, as a summer research experience on-campus or
off-campus, as an approved Ford/Earlham research project, or as an internship with an
engineering company.

Course Code	Course Title	Credit Hours	Semester
☐ ENGR 481	Internship, Field Studies, and Other Field Experiences	1-3	
☐ ENGR 485	Independent Student Research	1-3	
☐ ENGR 486	Research	0-3	
Elective cou	urses:		

- ENGR 251: Socially Responsible Engineering
- ENGR 300: TBD
- ENGR 301: Geotechnical Engineering
- ENGR 302: TBD
- ENGR 303: Signals and Systems
- ENGR 304: TBD
- ENGR 305: Strength of Materials
- ENGR 306: Engineering Thermodynamics
- ENGR 307: Advanced Topics in Engineering
- ENGR 374: Engineering Fluid Mechanics
- ART/ENGR 308: TBDART/ENGR 309: TBD
- A year-long canstone project (5 credits)

A year-long caps	stone project (5 credits)		
Course Code	Course Title	Credit Hours	Semester
☐ ENGR 487	Senior Capstone A	2	
☐ ENGR 488	Senior Capstone B	3	

Bachelor of Engineering Studies

To earn a **Bachelor of Engineering Studies** (not designed for ABET accreditation), you must complete the following courses, in addition to general education requirements:

Four of the following core engineering courses (16 credits)

Course Code	Course Title	Credit Hours	Semester
☐ ENGR 111	Intro to Engineering	4	
☐ ENGR 270	Engineering Mechanics	4	
☐ ENGR 350	Circuit Theory	4	
\square One of the following	courses: ENGR 306 or ENGR 374	4	

Course Code	Course Title	Credit Hours	Semester
☐ PHYS 125	Matter in Motion (with Calculus)	4	
☐ PHYS 235	Electromagnetism, Waves and Optics (With Calculus)	4	
☐ MATH 180	Calculus A	4	
☐ MATH 280	Calculus B	4	
☐ MATH 320	Differential Equations	4	
☐ PHYS 360	Mathematical Methods and Physics	3	
program Science, off-camp	ed independent research project or inter , and may be accomplished as a researc Chemistry, Biology, Computer Science, ous, as an approved Ford/Earlham resea	h class in Physics, Earth as a summer research	n and Environmental experience on-campus o
program Science, off-camp	, and may be accomplished as a researc Chemistry, Biology, Computer Science,	h class in Physics, Earth as a summer research	n and Environmental experience on-campus o
program Science, off-camp engineer	, and may be accomplished as a researc Chemistry, Biology, Computer Science, ous, as an approved Ford/Earlham resea ring company.	h class in Physics, Earth as a summer research rch project, or as an int	n and Environmental experience on-campus o ernship with an
program Science, off-camp engineer	, and may be accomplished as a research Chemistry, Biology, Computer Science, ous, as an approved Ford/Earlham researing company. Course Title Internship, Field Studies, and	h class in Physics, Earth as a summer research rch project, or as an int Credit Hours	n and Environmental experience on-campus o ernship with an
program Science, off-camp engineer Course Code BNGR 481	, and may be accomplished as a research Chemistry, Biology, Computer Science, ous, as an approved Ford/Earlham researing company. Course Title Internship, Field Studies, and Other Field Experiences	h class in Physics, Earth as a summer research rch project, or as an int Credit Hours 1-3	n and Environmental experience on-campus o ernship with an

• ENGR 304: TBD

• ENGR 305: Strength of Materials

ENGR 306: Engineering Thermodynamics
 ENGR 307: Advanced Topics in Engineering
 ENGR 374: Engineering Fluid Mechanics

ART/ENGR 308: TBDART/ENGR 309: TBD

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A year-long caps	stone project (5 credits)		
Course Code	Course Title	Credit Hours	Semester
☐ ENGR 487	Senior Capstone A	2	
☐ ENGR 488	Senior Capstone B	3	
This student is hereby	approved to pursue a major in accordance to th	e above plans (please enter y	
Academic advisor	С	Pate	

Department/Program Convener	Date
This completed form must be emailed to red Department/Program Convener must be co	gistrar@earlham.edu for processing. Your adviser and the pied on the email.
Registrar	Date