



All students must complete all REACH and program requirements and earn a minimum of 121 credits to qualify for Commencement exercises. All prerequisites must be completed with a grade of C or better. Students must earn a 2.5 GPA or higher in required major and cognate courses and labs.

PHYSICS | MAJOR REQUIREMENTS (15 courses; 49-50 credits)

Departmental Core (11 courses; 27 credits)

- PHYS 200 Freshman Physics Seminar (3)
- PHYS 201/203 General Physics I & Lab (4)
- PHYS 202/206 General Physics II & Lab (4)
- PHYS 310/312 Modern Physics & Lab (4)
- PHYS 330 Thermal Physics (3)
or CHEM 341 Physical Chemistry I (3)
- PHYS 335 Optics (3)
- PHYS 350 Mechanics I (3)
- PHYS 360 Electromagnetism (3)

Choose one additional course from PHYS at the 300-level or higher.

- _____

Cognate Courses (7 courses; 19 credits)

- MATH 170 Calculus I (4)
- MATH 171 Calculus II (4)
- MATH 240 Differential Equations (3)
or MATH 205 Linear Algebra (3)
- CHEM 121/122 General Chemistry I & Lab (4)
- CHEM 131/132 General Chemistry II & Lab (4)

Major Elective Courses (1 course; 3-4 credits)

REACH CURRICULUM (15 courses; 40-41 credits)

The Freshman Experience

- iMU101 Introduction to Mercyhurst (1)
- iMU102 Involvement at Mercyhurst (1)
- COMP120 Research and Writing (3)

outREACH

- BTG 300 Beyond the Gates (1)

The Senior Experience

- ETH 400 REACH Capstone Ethics (3)

Free Electives

- _____
- _____
- _____
- _____
- _____
- _____

R: Reason and Faith (CST, PHIL, RLST)

- _____
- _____

E: Expression and Creativity (ENG and ART, DANC, MUS, THEA)

- _____
- _____

A: Analytic Thought (MATH, STAT and BIO, CHEM, GEOL, PHYS, SCI)

- _____
- _____

C: Contexts and Systems (ECON, HIS, POLI)

- _____
- _____

H: Humans in Connection (ANTH, PSYC, SOC, WL)

- _____
- _____

* Some major requirements may also fulfill components of the REACH curriculum



Degree Completion Plan

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Year	Major Requirements	REACH Curriculum	Elective Courses	Credits
Freshman Fall	MATH 170 Calculus I(4) PHYS 200 Freshman Physics Seminar (1) PHYS 201/203 General Physics & Lab (4)	iMU 101 Introduction to Mercyhurst(1) (Mini 1) COMP 120 Research and Writing (3)	Elective choice (3)	16+
Freshman Spring	MATH 171 Calculus II (4) PHYS 202/206 General Physics II and Lab(4)	iMU 102 Involvement at Mercyhurst (1) (mini 3) REACH course of your choice (3)	Elective choice (3)	15+
Sophomore Fall	MATH 240 Differential Equations (3) or MATH 205 Linear Algebra (3) CHEM 121/122 General Chemistry I & Lab(4)	REACH course of your choice (3) REACH course of your choice (3) - BTG 300 Beyond the Gates (1) works well this semester - Study Abroad works well this semester	Elective choice(3)	16+
Sophomore Spring	PHYS 3 10/311 Modern Physics & Lab (4) CHEM 131/132 General Chemistry II & Lab(4)	REACH course of your choice (3) - BTG 300 Beyond the Gates (1) works well this semester - Study Abroad works well this semester	Elective choice (3)	
Junior Fall	PHYS 330 Thermal Physics(3) or CHEM 341 Physical Chemistry PHYS 335 Optics (3) or PHYS 350 Mechanics 1(3)	REACH course of your choice (3)	Elective choice (3) Elective choice (3)	15+
Junior Spring	PHYS 360 Electromagnetism Major Elective Course (3)	REACH course of your choice (3) REACH course of your choice (3)	Elective choice (3)	15+
Senior Fall	PHYS 350 Mechanics I (3) or PHYS 335 Optics (3) Major Elective Course (3)	ETH400 Capstone Ethics (3) must be taken during Senior year REACH course of your choice (3)	Elective choice (3)	15+
Senior Spring	PHYS 450 Senior Research Project(3)	ETH400 Capstone Ethics (3) must be taken during Senior year	Elective choice (3) Elective choice (3) Elective choice (3)	15+

TOTAL CREDITS
121