

PHYSICS (B.S.) (COMBINED B.S./M.B.A. BUSINESS ADMINISTRATION)

A Combined Degree program enables undergraduate students to enroll in graduate courses in their senior year, which can be counted towards the completion of both their Bachelor's and Master's degree requirements.

The ability to take these "swing courses" allows students to earn both their Bachelor's and Master's degrees in a shortened period of time, typically within five years. Undergraduate students interested in this option can find more information regarding program requirements on the University's Combined Programs website (<https://www.montclair.edu/combined-programs/programs-of-study/>).

Program Requirements

Students in this combined degree program must complete the requirements for:

Physics Major (B.S.) (<http://catalog.montclair.edu/programs/physics-bs/>)

Business Administration (M.B.A.) (<http://catalog.montclair.edu/programs/mba/>)

Graduate Swing Courses

A combined degree program allows students to complete 6-12 graduate credits ("graduate swing courses") while enrolled as an undergraduate. These courses count for both their bachelor and master's degrees. Graduate swing courses will count toward undergraduate free electives, unless noted otherwise.

The Graduate Swing Courses for this program:

M.B.A. Graduate Swing Courses (<http://catalog.montclair.edu/programs/mba-graduate-swing-courses-combined-programs/>)

Recommended Roadmap to Degree(s)

This recommended five-year plan is provided as an outline for students to follow in order to complete their degree requirements within five years. This plan is a recommendation and students should only use it in consultation with their academic advisor.

Fifth year courses are taken at the graduate level, after matriculation into the graduate portion of this combined degree program.

Undergraduate Program

First Year

Fall	Credits	Spring	Credits
GENERAL EDUCATION: (A) New Student Seminar	1	GENERAL EDUCATION: (C2) Literature	3
GENERAL EDUCATION: (C1) Writing	3	GENERAL EDUCATION: (C3) Communication	3
AMAT 120 or MATH 122	4	AMAT 220 or MATH 221	4
CSIT 104	3	PHYS 192	4
PHYS 191	4	PHYS 198	1
	15		15

Second Year

Fall	Credits	Spring	Credits
GENERAL EDUCATION: (K3) Social Science – Social Science Perspectives		3 AMAT 350, MATH 325, or PHYS 377	3
GENERAL EDUCATION: (L) Interdisciplinary Studies		3 CHEM 121	4
CHEM 120		4 PHYS 320	3
MATH 222		4 PHYS 340	3
PHYS 210		3	
	17		13

Third Year

Fall	Credits	Spring	Credits
GENERAL EDUCATION: (D) Fine and Performing Arts		3 GENERAL EDUCATION: (F1) Humanities – Great Works and Their Influences	3
World Language 1		3 GENERAL EDUCATION: (F2) Humanities – Philosophical and Religious Perspectives	3
PHYS 220		3 World Language 2	3
PHYS 230		4 PHYS 360	3
PHYS 300		1 Physics Elective	3-4
	14		15-16

Fourth Year

Fall	Credits	Spring	Credits
GENERAL EDUCATION: (K1) Social Science – American and European History		3 GENERAL EDUCATION: (J) Physical Education	1
GENERAL EDUCATION: (K2) Social Science – Global Cultural Perspectives		3 Physics Elective	3-4
PHYS 330		4 Graduate Swing courses	6
PHYS 464		3 Free Electives	5-2
Physics Elective		3-4	
	16-17		15-13

Total Credits 120

Graduate Program

Fourth Year

Summer Credits

First Half

MBA Core course	1.5
MBA Core course	1.5
MBA Elective course	1.5

Second
Half

MBA Core course	3
MBA Core course	1.5
MBA Core course	1.5
10.5	

Fifth Year

	Fall First Half	Credits	Spring First Half	Credits
	MBA Core course	1.5	MBA Core course	3
	MBA Flexible Core course	1.5	MBA Elective course	1.5
	MBA Flexible Core course	1.5	Second Half	
	MBA Elective course	1.5	MBA Core course	1.5
	Second Half		MBA Core course	1.5
	MBA Core course	1.5	MBA Core course	1.5
	MBA Core course	1.5		
	MBA Elective	1.5		
	10.5		9	

Total Credits 30