

BIOLOGY, B.S./ DOCTOR OF PODIATRIC MEDICINE DUAL DEGREE WITH NEW YORK COLLEGE OF PODIATRIC MEDICINE (NYCPM)

Podiatric Medicine specializes in the study and care of the foot, including its anatomy, pathology, and medical and surgical treatment. A student participating in this dual-degree program spends three years at New Jersey City University as Biology major pursuing a B.S. degree. During the third year, the student takes the Medical College Admissions test (MCAT) and applies to New York College of Podiatric Medicine (NYCPM). If accepted, the student pursues a doctoral program at the NYCPM. After the successful completion of the first year at NYCPM, New Jersey City University will grant the student a B.S. degree in Biology. After completing the fourth year of study at NYCPM the student is granted the degree of Doctor of Podiatric Medicine (D.P.M.).

This program is designed for students entering NJCU from high school, with placements into college-level composition and math courses. Transfer students are not guaranteed to have completed coursework appropriate to join the combined B.S./D.P.M. program.

- Applications and MCAT scores must be submitted to NYCPM by December 1st of the year preceding NYCPM enrollment. Applicants who meet the objective academic criteria noted above may be invited to an interview with the NYCPM Admissions Committee. However, an invitation to an interview does not guarantee acceptance into the podiatry program.
- Applicants not invited to an interview, or not selected for admission to NYCPM, shall be notified as early as possible, and may reapply for regular admission to NYCPM in the following year.
- Courses intended for transfer from NYCPM to NJCU must be completed during the first year of study at NYCPM.
- Students will not be granted duplicate credit for courses taken at New Jersey City University if the equivalent course is required at NYCPM. New Jersey City University courses that are not acceptable for NYCPM credit are: Anatomy & Physiology I, Anatomy & Physiology II, Histology, Developmental Biology, and General Physiology.
- Any student who does not complete the first year of study at NYCPM may return to NJCU to complete the BS degree in Biology.

Code	Title	Credits
Required Biology Courses:		21
BIOL 130	Principles Biology I	4
BIOL 131	Principles Biology II	4
BIOL 230	Cell Biology	4
BIOL 304	Genetics	4
BIOL 402	Ecology	4
BIOL 440	Biology Seminar	1
Biology Elective Course:		
Select a Biology course numbered higher than BIOL 230.		
Chemistry Required Courses:		18
CHEM 105	General Chemistry I Lecture	3

CHEM 1105	General Chemistry I Recitation/Laboratory	2
CHEM 106	General Chemistry II Lecture	3
CHEM 1106	General Chemistry II Recitation/Laboratory	2
CHEM 207	Organic Chemistry I	3
CHEM 2207	Organic Chemistry I Laboratory	1
CHEM 208	Organic Chemistry II	3
CHEM 2208	Organic Chemistry II Laboratory	1
Physics Required Courses:		8
PHYS 130 or PHYS 140	College Physics I (Lecture) Principles of Physics I - Lecture	3
PHYS 1130 or PHYS 1140	Physics I Recitation & Laboratory Principles of Physics I - Laboratory and recitation	1
PHYS 131 or PHYS 141	Physics II (Lecture) Principles of Physics II - Lecture	3
PHYS 1131 or PHYS 1141	Physics II Recitation & Laboratory Principles of Physics II - Laboratory and Recitation	1
Math and Computer Science Required Courses:		11
MATH 192	Calculus and Analytic Geometry I	4
MATH 193	Calculus and Analytic Geometry II	4
INTD 180 or PSYC 230 or MATH 140	Computers Tools for Science and Math Statistics for Social Sciences Statistics I	3
Total Required Course Credits:		62

English Composition I & II, Principles of Biology I & II, General Chemistry I & II and Organic Chemistry I & II must be completed by the end of the second year of study at NJCU to ensure proper preparation for the MCAT. All prerequisite science and math courses and their labs will be completed at NJCU after the time of first enrollment at NJCU.

A minimum of five (5) biology major courses must be completed at NJCU. A minimum grade of "B" must be attained in each Biology, Chemistry, Physics and Math course, a minimum cumulative GPA of 3.0, and a minimum science GPA of 3.0 are required for acceptance to and retention in the program. A minimum of 36 credits must be completed in NJCU's General Education Program courses.

No withdrawal or incomplete grades are permitted in any podiatry school prerequisites.

Freshman

Semester 1		Credits
ENGL 101 or ESL 101	English Composition I or English Composition I for English as a Second Language Students	4-6
BIOL 130	Principles Biology I	4
CHEM 105	General Chemistry I Lecture	3
CHEM 1105	General Chemistry I Recitation/Laboratory	2
General Education Tier I Course		3
Credits		16-18
Semester 2		
ENGL 102 or ESL 102	English Composition II or	4-6
BIOL 131	Principles Biology II	4
CHEM 106	General Chemistry II Lecture	3
CHEM 1106	General Chemistry II Recitation/Laboratory	2

General Education Tier II Course	3
Credits	16-18

Sophomore**Semester 1**

BIOL 230	Cell Biology	4
CHEM 207	Organic Chemistry I	3
CHEM 2207	Organic Chemistry I Laboratory	1
PHYS 140	Principles of Physics I - Lecture	3
PHYS 1140	Principles of Physics I - Laboratory and recitation	1
MATH 192	Calculus and Analytic Geometry I	4

Credits	16
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Semester 2

BIOL 304	Genetics	4
CHEM 208	Organic Chemistry II	3
CHEM 2208	Organic Chemistry II Laboratory	1
PHYS 141	Principles of Physics II - Lecture	3
PHYS 1141	Principles of Physics II - Laboratory and Recitation	1
MATH 193	Calculus and Analytic Geometry II	4

Credits	16
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Junior**Semester 1**

Biology Elective 2xx (above BIOL 230)	4	
General Education Tier II Course	3	
General Education Tier II Course	3	
MATH 140	Statistics I	3

Credits	13
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Semester 2

BIOL 440	Biology Seminar	1
General Education Tier Course II	3	
General Education Tier Course II	3	
General Education Tier Course II	3	
General Education Capstone Course	3	

Credits	13
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Senior**Semester 1**

BIOL 402	Ecology	4
Biology Elective 2xx (above BIOL 230)	3-4	
PHYS 130 or PHYS 140	College Physics I (Lecture) or Principles of Physics I - Lecture	3
PHYS 1130 or PHYS 1140	Physics I Recitation & Laboratory or Principles of Physics I - Laboratory and recitation	1
Minor or Elective Course	3	

Credits	14-15
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Semester 2

BIOL 440	Biology Seminar	1
Biology Elective 3xx (above BIOL 230)	4	
PHYS 131 or PHYS 141	Physics II (Lecture) or Principles of Physics II - Lecture	3

PHYS 1131 or PHYS 1141	Physics II Recitation & Laboratory or Principles of Physics II - Laboratory and Recitation	1
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Minor or Elective Course	3
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Minor or Elective Course	3
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Credits	15
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Total Credits	119-124
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Student Learning Outcomes

Upon completion of the Biology, B.S./ Doctor of Podiatric Medicine Dual Degree with New York College of Podiatric Medicine program, students will be able to:

1. Demonstrate knowledge of the factual and theoretical basis of biology including mechanisms on the molecular, cellular, organismal, and systems levels.
2. Demonstrate understanding of scientific inquiry and explain how scientific knowledge is discovered and validated.
3. Apply quantitative knowledge and reasoning to describe or explain phenomena in the natural world.
4. Demonstrate knowledge of basic principles of chemistry and their application to understanding living systems.
5. Communicate scientific information in written and/or oral formats.