

Bachelor of Science Degree: Medical Biology

(Minimum of 120 credits required)

The Bachelor of Science (B.S.) degree in Medical Biology program provides undergraduate preparation for students interested in pursuing professional degrees in medicine, dentistry, pharmacy, etc., veterinary medicine, or graduate degrees in the biomedical sciences. In addition to the University and College degree requirements, students seeking a Bachelor of Science degree in Medical Biology must complete the following degree requirements.

Prerequisite Coursework for Transfer Students

Students transferring to Florida Atlantic University must complete both lower-division requirements (including the requirements of the Intellectual Foundations Program) and requirements for the college and major. Lower-division requirements may be completed through the A.A. degree from any Florida public college, university or community college or through equivalent coursework at another regionally accredited institution. Before transferring and to ensure timely progress toward the baccalaureate degree, students must also complete the prerequisite courses for their major as outlined in the [Transition Guides](#).

All courses not approved by the Florida Statewide Course Numbering System that will be used to satisfy requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

Core Requirements (63-64 credits, 25-26 upper division credits)		
Biological Principles and Lab	BSC 1010, 1010L	4
Biodiversity and Lab	BSC 1011, 1011L	4
General Chemistry 1 and Lab	CHM 2045, 2045L	4
General Chemistry 2 and Lab	CHM 2046, 2046L	4
Organic Chemistry 1	CHM 2210	3
Organic Chemistry 2	CHM 2211	3
Organic Chemistry Lab	CHM 2211L	2
Biochemistry 1	BCH 3033	3
Life Science Calculus OR Calculus with Analytic Geometry 1	MAC 2241 OR MAC 2311	4
College Physics 1 OR General Physics 1	PHY 2053 OR PHY 2048	4
College Physics 2 OR General Physics 2	PHY 2054 OR PHY 2049	4
General Physics 1 Lab	PHY 2048L	1
General Physics 2 Lab	PHY 2049L	1
Experimental Design and Statistical Inference OR Introduction to Biostatistics	PSY 3234 OR STA 3173	3
Genetics	PCB 3063	4
Cell Biology	PCB 3023	3
General Microbiology and Lab	MCB 3020, MCB 3020L	4
Human Morphology & Function I and Lab OR Vertebrate Structure, Development and Evolution & Lab	PCB 3703, 3703L OR ZOO 4690, ZOO 4690L	4 OR 5
Human Morphology & Function 2 and Lab OR Comparative Animal Physiology and Lab	PCB 3704, 3704L OR PCB 4723, PCB 4723L	4

Electives

Select a minimum of 12 upper-division credits from the list below

Biochemistry 2 OR Advanced Biochemistry	BCH 3034 OR BCH 4035	3
Biochemistry Lab	BCH 3103L	3
Molecular Genetics of Aging	BSC 4022	3
Laboratory Methods in Biotechnology	BSC 4403L	3
Biology of Cancer	BSC 4806	3
Introduction to Drug Design	CHM 4273	3
Structural Biochemistry	CHM 4350	3
***Directed Independent Study	CHM 4905, PCB 4905	***
***Directed Independent Research	BSC 4910, PCB 4915, PCB 4916	***
Comparative Animal Behavior	CBH 4024	3
Evolution	PCB 3674	3
Principles of Ecology	PCB 4043	3
Medical Bacteriology	MCB 4203	3
Genetics Lab	PCB 4067L	3
Immunology	PCB 4233	3
Molecular Genetics	PCB 4522	3
Genes and Development	PCB 4594	3
Cellular Neuroscience and Disease	PCB 4842	3
Practical Cell Neuroscience	PCB 4843C	3
Special Topics as approved by the Biology Department	BSC 4930, CHM 4930, PCB 4930	1 - 3

*** Students may enroll in a maximum of 3 research credits within a single semester.

Note: No more than a total of 5 non-graded (S/U) credits may be used to fulfill biology degree program requirements. Approved non-graded biology electives include:

***Directed Independent Study	CHM 4905, PCB 4905	***
***Directed Independent Research	BSC 4910, PCB 4915, PCB 4916	***
Professional Internship	IDS 3949	0-1

Note: Biology department approval is required for students wishing to complete the Professional Internship for credit. After a student's Professional Internship registration request has been processed by the FAU Career Center, the Career Center will communicate directly with the department to request approval on the student's behalf.

Note: Students wishing to participate in Medical Shadowing Internship should not enroll in Professional Internship. They should instead enroll in Medical Shadowing Internship (IDS 3940). The Medical Shadowing Internship course cannot be used to fulfill biology degree program requirements.

Students can find detailed flight plan information and Intellectual Foundations Program checklists for biology majors through [University Advising Services](#).