Biotechnology Program

Dr. Leonard J. Sciorra, Coordinator

The Biotechnology Program is housed within the Department of Applied Science and Technology. The Department offers a major in Biotechnology with an emphasis on the biomedical aspects of Biotechnology. Student training is multidisciplinary, with course work in mathematics, biology, chemistry, physics as well as an internship at The Institute of Human and Molecular Genetics at UMDNJ-New Jersey Medical School.

Requirements for Biotechnology Major

Degree of Bachelor of Science

Twelve of the required credits for the major count towards the Core Curriculum Requirements.

Total Credits		69
PC-188	General Physics Laboratory II	1
PC-186	General Physics II	3
PC-187	General Physics Laboratory I	1
PC-185	General Physics I	3
MA-144	Integral Calculus ²	4
MA-143	Differential Calculus ²	4
BT-441	Research in Biotechnology II	2
BT-440	Research in Biotechnology I	2
BT-429	Special Topics in Biotechnology	3
BT-420	Biomedical Applications of DNA Tech	3
BI-350L	Genetics Lab	0
BI-350	Genetics	4
BI-240L	Cell & Molecular Bio Lab	0
BI-240	Cell and Molecular Biology	4
BC-390	Spec Topics: Biological Chem (Capstone)	3
CH-443L	Biochemistry II Lab	1
CH-443	Biochemistry II	3
CH-442L	Biochemistry 1 Lab	1
CH-442	Biochemistry I	3
CH-252L	Organic Chemistry II Lab	1
CH-252	Organic Chemistry II	3
CH-251L	Organic Chemistry I Lab	1
CH-251	Organic Chemistry I	3
CH-132L	Gen Chem and Qualitative Analysis 2 Lab	1
CH-132	General Chem and Qualitative Analysis 2	3
CH-131L	Gen Chem and Qualitative Analysis 1 Lab	1
CH-131	General Chem and Qualitative Analysis 1	3
BI-186	General Biology II Lab	1
BI-184	General Biology II ¹	3
BI-185	General Biology I Lab	1
BI-183	General Biology I ¹	3

Total Credits

1 May count towards the Core Natural Science Requirement.

² May count towards the Core Mathematics Requirement.

Special Note on the Core Requirements for Biotechnology Majors

¹ The recommended values course is PL-254 Contemporary Issues in Bioethics.

Special Note on Requirements Biotechnology Major Requirements

Students are strongly encouraged to take MA-273 Multivariable Calculus I followed by CH-365 Physical Chemistry I.