

 <b>FLORIDA ATLANTIC UNIVERSITY</b>	<b>NEW/CHANGE PROGRAM REQUEST</b> <b>Graduate Programs</b>		UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	Department _____ College _____		
Program Name _____		New Program*  Change Program*	<b>Effective Date</b> (TERM & YEAR)
Please explain the requested change(s) and offer rationale below or on an attachment.			
*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.			
Faculty Contact/Email/Phone _____		Consult and list departments that may be affected by the change(s) and attach documentation	
<b>Approved by</b> Department Chair <u>          <i>marc kantorow</i>          </u> College Curriculum Chair <u>          <i>marc kantorow</i>          </u> College Dean <u>          <i>marc kantorow</i>          </u> UGPC Chair _____ UGC Chair _____ Graduate College Dean _____ UFS President _____ Provost _____			<b>Date</b> <u>          8/6/2025          </u> <u>          8/6/2025          </u> <u>          8/6/2025          </u> _____ _____ _____ _____ _____

Email this form and attachments to [UGPC@fau.edu](mailto:UGPC@fau.edu) 10 days before the UGPC meeting.

## BIOMEDICAL SCIENCE GRADUATE CERTIFICATE

*(Minimum of 12 credits required)*

Biomedical Science is a broad and interdisciplinary field focused on understanding and improving human health. It incorporates diverse areas of specialized investigation that share this common goal, including anatomy, biochemistry, genetics, immunology, microbiology, pharmacology and others. The [Biomedical Science certificate](#) is offered to provide master's and Ph.D. students an integrated background in the biomedical sciences. To achieve this, the 12-credit program is designed with flexibility. Although the program is centered on the Charles E. Schmidt College of Medicine, faculty from other colleges and institutions contribute to the program's success, and students are welcomed from many departments, centers and colleges throughout the University.

### Admission Requirements

Admission to and completion of this program is organized by the Graduate Program Office in the College of Medicine. [Admission to this certificate program is open to students currently enrolled in graduate programs at Florida Atlantic University as well as to non-degree seeking students. For degree-seeking students, credits earned for graduate degree programs may also count for the certificate if approved by advisors in both programs. Applications for the Graduate Certificate should be submitted to the Office of Graduate Programs Charles E. Schmidt College of Medicine upon successful completion of the required courses with a minimum grade of "B" in each course.](#)

[\\*Students may need permission to enroll in courses outside of their stipulated curriculum. Please check with your departmental graduate advisor as well as the departmental coordinator or instructor for the desired course.](#)

[For admission, the applicant must satisfy the following criteria:](#)

- [1. Enrollment in an FAU master's or Ph.D. training program in any of the following: Biomedical Science, Biological Sciences, Chemistry and Biochemistry, Complex Systems and Brain Sciences, Integrative Biology and Psychology. Students must have approval of their graduate program to enroll and must remain in good standing with their graduate program to continue in this certificate.](#)

- ~~2. Demonstrate competency in life science, mathematics and other courses related to the certificate program, such as by achieving at least a "B" in these courses.~~
- ~~3. Interview with the certificate director or graduate committee chair to discuss program goals and requirements and obtain permission to enroll.~~

## Program Requirements

The certificate curriculum provides students opportunities to survey different areas of the biomedical sciences and to focus on areas of particular interest. Program requirements are designed to be tailored to the individual student with previous coursework and future goals in mind.

1. Students must achieve a minimum grade of "B" in four of the courses below or an approved graduate Biomedical Science course for a total of 12 credits:

Choose four courses from the list below (12 credits)

Integrated Morphology 1	BMS 6102C
Integrated Morphology 2	BMS 6104C
Clinical Microbiology	BMS 6303
Autonomic Function and Diseases	BMS 6523
Fundamentals of General Pathology	BMS 6601
Brain Diseases: Mechanism and Therapy	BMS 6736
Macromolecular Therapy for Human Diseases	GMS 6301
Molecular Basis of Disease and Therapy	GMS 6302
Data Interpretation and Analysis in the Age of Precision Medicine	GMS 6860
Host Defense and Inflammation	MCB 6208
Advanced Molecular and Cellular Biology	PCB 5532
Neurobiology of Addiction	PCB 5844
Advanced Cell Physiology	PCB 6207
Molecular Basis of Human Cancer	PCB 6235
Problem-Based Immunology	PCB 6238
Tumor Immunology	PCB 6239
Human Genetics	PCB 6665
Molecular Biology of the Cardiovascular System and Cardiac Disease	PCB 6705
Adult Neurogenesis	PCB 6848
Physiology of the Heart	PCB 6885
Special Topics	PCB 6933
Developmental Neurobiology	PSB 6515

- ~~2. Students must participate in the College of Medicine Research Day each year showcasing graduate student research in the College.~~



Note: No credit that is more than seven years old at the time the graduate certificate in Biomedical Science is awarded may be counted toward the certificate.