

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Graduate Programs	UGPC Approval _____ UFS Approval _____ Banner _____ Catalog _____
	Department Biomedical Science College Medicine	
Program Name Master of Science with Major in Biomedical Science	<input type="checkbox"/> New Program* <input checked="" type="checkbox"/> Change Program*	Effective Date <small>(TERM & YEAR)</small> Fall 2021
<p>Please explain the requested change(s) and offer rationale below or on an attachment.</p> <p>We are requesting to update the names listed for two existing courses in our program whose titles have recently been changed. Please see the updated catalog entry attached.</p>		
<small>*All new programs and changes to existing programs must be accompanied by a catalog entry showing the new or proposed changes.</small>		
Faculty Contact/Email/Phone Marc Kantorow, mkantoro@health.fau.edu, x2910	Consult and list departments that may be affected by the change(s) and attach documentation	
Approved by Department Chair _____ College Curriculum Chair <u>Marc Kantorow</u> College Dean <u>Christopher Butler</u> UGPC Chair <u>Paul R. Peterson</u> UGC Chair <u>Robert W. Johnson</u> Graduate College Dean _____ UFS President _____ Provost _____	Date _____ 2/11/2021 _____ Apr 4, 2021 _____ Apr 5, 2021 _____ Apr 5, 2021 _____ _____ _____	

Email this form and attachments to UGPC@fau.edu 10 days before the UGPC meeting.

Master of Science with Major in Biomedical Science

Students interested in pursuing advanced studies in biomedical science may obtain a degree of Master of Science (M.S.) with Major in Biomedical Science, taking either the thesis or non-thesis option. The thesis option is oriented toward those students interested in pursuing biomedical research or careers in academia. The non-thesis program is an option for students seeking to solidify their knowledge base in order to apply to appropriate professional schools or pursue careers in the biomedical sciences industry.

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Degree Requirements

Non-Thesis Option

This option requires a minimum of 30 graduate-level credits. With their advisor's approval, students design a course of study courses offered in the Charles E. Schmidt College of Medicine as well as courses in related departments and colleges chosen from the following list.

Thesis Option

This option requires a minimum of 30 credits consisting of coursework chosen from the list below, a minimum of 6 thesis credits, 3 thesis-related research credits. Students design a course of study and research with the guidance and approval of the advisors and thesis committees. Thesis students are required to make a formal research proposal to their committees within their first year prior to enrollment in thesis credits. In addition, upon completion of their research, they must make a formal thesis presentation and defense in the semester they plan to graduate. All thesis students must also receive certification of completion of the Responsible Conduct of Research program. The RCR program, which is offered jointly through the Graduate College and Division of Research, covers the nine instructional areas of RCR. All four components are mandatory in order to receive certification of completion.

Students wishing to change their admission from the thesis option to the non-thesis option must submit to the Graduate Program Committee a letter of request that states the justification for the change and a letter from the thesis advisor in support of the request. An interview with the Graduate Program Committee may be required. A maximum of 6 credits from the thesis career can be applied toward the non-thesis career upon approval by the Graduate Program Committee. PCB 6974 and PCB 6971 credits are non-transferable.

Core - 9 credits		
Advanced Molecular and Cellular Biology	PCB 5532	3
Human Genetics	PCB 6665	3
Special Topics (such as Biomedical Writing, Intensive Biomedical Writing)	PCB 6933	3
Thesis Requirements - 9 credits (minimum)		
Master's Thesis <i>(may be taken multiple times; 6 credits minimum; 12 credits maximum)</i>	PCB 6971	1-12
Thesis-Related Research <i>(may be taken only twice; 3 credits minimum; 6 credits maximum)</i>	PCB 6974	2-3
Electives		
Integrated Morphology 1	BMS 6102C	4
Integrated Morphology 2	BMS 6104C	4
Clinical Microbiology	BMS 6303	3

Autonomic Function and Diseases	BMS 6523	3
Fundamentals of General Pathology	BMS 6601	3
Brain Diseases: Mechanism and Therapy	BMS 6736	3
Bioinformatics	BSC 6458C	3
Biomedical Data and Informatics	BSC 6459	3
Cognitive Neuroscience	ISC 5465	3
Biomedical Science Core Technologies Laboratory	GMS 6091C	3
Macromolecules and Human Disease	GMS 6301	3
Molecular Basis of Disease and Therapy	GMS 6302	3
Pharmacology	GMS 6513	3
Biomedical Concepts and Translational Applications	GMS 6841	3
Host Defense and Inflammation	MCB 6208	3
Advanced Molecular Genetics of Aging	PCB 5245	3
Neurobiology of Addiction	PCB 5844	3
Advanced Cell Physiology	PCB 6207	3
Molecular Basis of Human Cancer	PCB 6235	3
Advanced Immunology	PCB 6236	3
Problem-Based Immunology	PCB 6238	3
Tumor Immunology	PCB 6239	3
Molecular Biology of the Cardiovascular System and Cardiac Disease	PCB 6705	3
Adult Neurogenesis	PCB 6848	3
Physiology of the Heart	PCB 6885	3
Directed Independent Study (maximum of 6 credits allowed)	PCB 6905	1-3
Special Topics (general)	PCB 6933	1-8
Graduate Seminars	PCB 6934	1
Biological Vision	PSB 5117	3
Principles of Neuroscience	PSB 6037	3
<u>Cellular and Molecular Neuroscience</u> Neuroscience 1	PSB 6345	3
<u>Systems and Integrative Neuroscience</u> Neuroscience 2	PSB 6346	3
Developmental Neurobiology	PSB 6515	3