

 FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGRAM REQUEST Graduate Programs	UGPC Approval _____ UFS Approval _____ Banner Posted _____ Catalog _____
	Department Biological Science College Charles E Schmidt College of Science	
Program Name Professional Science Master With Major in Business Biotechnology	<input type="checkbox"/> New Program <input checked="" type="checkbox"/> Change Program	Effective Date (TERM & YEAR) Spring 2020
Please explain the requested change(s) and offer rationale below or on an attachment Changes to the catalog are needed to update degree information and clarifications to make more clear the requirements for the degrees. add application deadlines and update core courses. Changes and updates listed below. Update catalog with current admission application requirements and application deadlines. Update Core courses internship Prefix number: BSC 6946 PSM Science Internship 2 credits and MAN 6946 PSM Business Internship.		
Faculty Contact/Email/Phone David Binninger/binninge@fau.edu/561-297-3323	Consult and list departments that may be affected by the change(s) and attach documentation	
Approved by Department Chair <u>Smash L. Mullins</u> College Curriculum Chair <u>Christopher Beeth</u> 2020.02.10 09:34:46 -05'00' College Dean <u>Smith A. Kalis</u> UGPC Chair <u>Archie Penner</u> UGC Chair <u>Pat R. Patw</u> Graduate College Dean <u>Robert W. Johnson</u> UFS President _____ Provost _____	Date <u>10-23-19</u> <u>2/10/2020</u> <u>2/26/20</u> <u>2/26/2020</u> <u>3-2-2020</u>	

Email this form and attachments to UGPC@fau.edu one week before the UGPC meeting so that materials may be viewed on the UGPC website prior to the meeting.

FAUprogramchangeGR, created December 2017

GRADUATE COLLEGE

FEB 10 2020

Professional Science Master with Major in Business Biotechnology

The Professional Science Master's Degree (P.S.M.) with major in Business Biotechnology is a terminal degree for students interested in entering the workforce directly following completion of the degree. The program is tailored for the student with undergraduate training in biology or chemistry who is primarily interested in working in the business side of the emerging biotechnology and pharmaceutical industries. This interdisciplinary program, provided in conjunction with the College of Business, includes traditional classroom courses in both business and science, culminating in two internship experiences. One internship provides experience working side-by-side with a research scientist. The second internship exposes the student to the business side of the biotechnology industry.

Application Deadlines: Spring term- October 1st. Fall term- January 15th.

Departmental Admission Requirements

In addition to meeting all of the University and College admission requirements for graduate study in the Professional Science Masters with Major in Business Biotechnology

1. Baccalaureate degree in biology or chemistry. Degrees in other scientific areas can be considered on an individual basis;
2. Graduating undergraduate science GPA of 3.0 or higher;
3. Minimum scores of 151 (verbal) and 148 (quantitative) on the GRE; GRE scores more than five years old will not be accepted;
4. Personal statement of career goals and how the applicant feels this training will help achieve those goals;
5. Three letters of recommendation with at least one from a former professor.
6. Graduate Student Biology Faculty Advisor Verification form
7. Obtain Approval of the Department of Biological Science

Degree Requirements

The program requires a total of 34 credits : Student Curriculum Degree requirements include:

Core Courses (10 credits required)		
Venture Creation	ENT 6016	3
Biotechnology Business Development	ENT 6196	3
Two internships*		
PSM Science Internship	BSC 6946	2
PSM Business Internship	MAN 6946	2

* Each internship will last one semester. One internship will be science oriented with the student working directly with research scientists. The second will involve working on the business and administrative side of the company or institute, including technology transfer and business development offices. The goal is to place students in one of the biomedical institutes (e.g., Scripps Florida and the Max Plank Institute) or an emerging biotechnology business.

Science Courses (select 15 credits from the list below. May require instructor permission or prerequisites)**		
Biochemistry of the Gene	BCH 5415	3
Advanced Biochemistry	BCH 6740	3
Practical Cell Neuroscience	BSC 5417C	3
Computer Graphics for Biologists	BSC 6455	3

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Advanced Genetics Lab	PCB 5064L	3
Genes and Development	PCB 6595	3
Advanced Cell Physiology	PCB 6207	3
Advanced Immunology	PCB 6236	3
RNS Biology and Disease	PCB 6525	3
Reproductive Endocrinology	PCB 6804	3
Advanced Neurophysiology Lab	PCB 6837L	3
Cellular Neuroscience and Disease	PCB 6849	3
Special Topics, including Macromolecular Structure and Function and Protein Misfolding and Disease (3 credits each)	PCB 6933	6
Principles of Neuroscience	PSB 6037	3
Developmental Neurobiology	PSB 6515	3
Human Neuroanatomy	ZOO 6748	3
Advanced Biochemistry	BCH 6740	3
Structural Biochemistry	CHM 6351	3
Instrumentation	CHM 6157	3
Macromolecules and Human Disease	GMS 6301	3
Host Defense and Inflammation	MCB 6208	3
Advanced Molecular and Cell Biology	PCB 5532	3
Human Genetics	PCB 6665	3
Autonomic Function and Diseases	BMS 6523	3
Molecular Basis of Disease and Therapy	GMS 6302	3
Neurobiology of Addiction	PCB 5844	3
Molecular Basis of Human Cancer	PCB 6235	3
Problem-Based Immunology	PCB 6236	3
Tumor Immunology	PCB 6239	3
Adult Neurogenesis	PCB 6846	3

** The science courses are electives, and their selection will vary depending on student demand, resources, faculty and new courses being developed. The list of science courses above would be appropriate for a student in this program. Other courses can be substituted with the approval of the faculty advisor.

Business Courses (9 credits required, choose from list below)		
Financial Accounting Concepts	ACG 6027	3
Technology Commercialization Strategies	ENT 6186	3
Developing and Marketing Innovations	MAR 6837	3
Advanced Marketing Management	MAR 6815	3
Marketing Functions/Processes	MAR 6055	3
Entrepreneurship Venture Capital	ENT 6426	3
Leadership and Organizations	MAN 6296	3

Human Resources Management	MAN 6156	3
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Important comment about courses. The list of **business** courses shown above reflect those currently listed in the *University Catalog*. Availability will vary depending on the offerings in each department. New courses may have been added since this information was published. Appropriate **business** course substitutions can be made with the approval of the student's graduate program advisor.

For additional information about this degree program, contact David Binninger, binninge@fau.edu