FLORIDA ATLANTIC UNIVERSITY	NEW/CHANGE PROGR Graduate Prog Department Biological Sciences College Charles E. Schmidt College of	grams	UGPC Approval UFS Approval Banner Catalog
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Update Departm Remove the GR	nental Admission Requirements:  E requirement		
Faculty Contact/	and changes to existing programs must be acco Email/Phone prooks@fau.edu) 561-297-3888		ents that may be affected by
Approved by  Department Chair College Curriculur College Dean UGPC Chair UGC Chair Graduate College UFS President Provost	Reduce Wes when we have		Date 7-20-23 8/28/2023 08/28/2023 Sep 14, 2023 Sep 14, 2023 Sep 14, 2023

Email this form and attachments to <a href="https://ugpc.org/dau.edu">UGPC.org/dau.edu</a> 10 days before the UGPC meeting.

## BUSINESS BIOTECHNOLOGY PROFESSIONAL SCIENCE MASTER (P.S.M.)

(Minimum of 34 credits required)

#### Application Deadline: Spring term - October 1; Fall term - January 15

The Professional Science Master (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 34-credit 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.

#### **Departmental Admission Requirements**

- 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. Approval of the Department of Biological Sciences.

### **Degree Requirements**

The program requires a total of 34 credits. Student curriculum degree requirements include:

Core Courses - 10 credits required		
Venture Creation	ENT 6016	
Biotechnology Business Development	ENT 6196	

Professional Science Master's (P.S.M.) in Business Biotechnology -	BSC 6946
Scientific Internship	
Profession a Science Master's (P.S.M.) in Business Biotechnology -	MAN 6946
Business Internship	

<sup>\*</sup> 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 Planck Institute) or an emerging biotechnology business.

#### **Science Courses**

Choose15 credits from the list below. May require instructor permis	sion or prerequisites.
Biochemistry of the Gene	BCH 5415
Advanced Biochemistry	BCH 6740
Laboratory Methods in Biotechnology	BSC 6408L
Practical Cell Neuroscience	BSC 6417C
Computer Graphics for Biologists	BSC 6455
Bioinformatics	BSC 6458C
Scientific Communication (Note: Priority enrollment given to Integrative Biology Ph.D. students)	BSC 6846
Special Topics	BSC 6936
Advanced Molecular Genetics of Aging	PCB 5245
Advanced Genetics Lab	PCB 5064L
Genes and Development	PCB 6595
Advanced Cell Physiology	PCB 6207
Advanced Immunology	PCB 6236
Climate Change: Ecosystems to Human Health	PCB 6409
RNS Biology and Disease	PCB 6525
Reproductive Endocrinology	PCB 6804
Advanced Neurophysiology Lab	PCB 6837L
Cellular Neuroscience and Disease	PCB 6849
Special Topics, including Macromolecular Structure and Function and	PCB 6933
Protein Misfolding and Disease (3 credits each)	
Principles of Neuroscience	PSB 6037
Developmental Neurobiology	PSB 6515
Human Neuroanatomy	Z00 6748
Structural Biochemistry	CHM 6351

CHM 6157
GMS 6301
MCB 6208
PCB 5532
PCB 6665
BMS 6523
GMS 6302
PCB 5844
PCB 6235
PCB 6238
PCB 6239
PCB 6846
BCH 6930
BMS 6736
BOT 6735C
CHM 6277C
CHM 6278
CHM 6380
CHM 6279C
GMS 6513
ISC 6930
PCB 6835C
PCB 6933

<sup>\*\*</sup> 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 science courses can be taken as science electives with the approval of the faculty advisor.

# Business Courses - 9 credits required *Choose from list below.*

Financial Accounting Concepts	ACG 6027
Technology Commercialization Strategies	ENT 6186
Developing and Marketing Innovations	MAR 6837
Advanced Marketing Management	MAR 6815
Marketing Functions/Processes	MAR 6055
Entrepreneurship and Venture Capital	ENT 6428
Leadership and Organizations	MAN 6296

Human Resources Management	MAN 6156
Advanced Business Plan Development	ENT 6116
Project Management	MAN 6581
Cross-Cultural Managment and Human Resources	MAN 6609

*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 courses can be taken as business electives with the approval of the student's graduate program advisor.

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