FLORIDA ATLANTIC UNIVERSITY

NEW/CHANGE PROGRAM REQUEST
Undergraduate Programs

UUPC Approval 12-2-24
UFS Approval _____
Banner _____
Catalog _____

Department Chemistry and Biochemistry

College Science

Program Name

PHARMACEUTICAL TECHNOLOGY UNDERGRADUATE CERTIFICATE

☐ **New Program***

☑ **Change Program***

Effective Date *(TERM & YEAR)*

SP 2025

Please explain the requested change(s) and offer rationale below or on an attachment.

The Pharmaceutical Technology certificate program equips students aiming for a career in the biopharmaceutical industry with an understanding of the vital roles biology, chemistry, biochemistry, analytical techniques, formulation, and regulatory considerations play in the drug discovery process. To widen accessibility and accommodate non-chemistry majors, we are enabling greater flexibility in the core courses of the program and in the required electives. These adjustments will allow students to complete the certificate without needing to enroll in courses outside their major. Additionally, it allows more elective options that align with the goals of the certificate.

*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

Tito Sempertegui/ tsempert@fau.edu/ 7-2507

Consult and list departments that may be affected by the change(s) and attach documentation

Approved by		***Date***
Department Chair	Andrew Tesenthis	11/14/2024
College Curriculum Chair		11/19/24
College Dean		11/20/24
UUPC Chair	Korey Sorge	12-2-24
Undergraduate Studies Dean	Dan Meeroff	12-2-24
UFS President		
Provost		

Email this form and attachments to mjenning@fau.edu seven business days before the UUPC meeting.

Pharmaceutical Technology
Undergraduate Certificate

(Minimum of 14 credits required)

The Pharmaceutical Technology certificate program provides students with a unique opportunity to understand the drug development process, emphasizing the roles that biology, chemistry, biochemical, analytical, formulation and regulatory issues play in the process of drug discovery.

~~Required Courses - 10 credits~~

~~Bioanalytical Instrumentation CHM 4139 2~~

~~Bioanalytical Instrumentation Lab CHM 4139L 2~~

~~RI: Introduction to Drug Design CHM 4273 3~~

~~Introduction to Drug Development CHM 4274C 3~~

~~Elective Courses - 4 credits~~

~~Biochemistry Laboratory BCH 3103L 3~~

~~RI: Advanced Biochemistry BCH 4035 3~~

~~Seminar BSC 4932 1~~

~~Organic Chemistry 3 CHM 4220 3~~

~~Introduction to Drug Formulation CHM 4276C~~

~~3~~

~~RI: Structural Biochemistry CHM 4350 3~~

~~Special Topics (i.e., Organic Spectroscopy) CHM 4933 3~~

~~Special Topics (i.e., Chemical Biology) CHM 4933 3~~

~~Science Internship IDS 3941 1-3~~

Required Courses – 6 credits		
RI: Introduction to Drug Design	CHM 4273	3
Introduction to Drug Development	CHM 4274C	3
Elective Labs – At least 5 credits		
Organic Chemistry Lab	CHM 2211L	2
Biochemistry Laboratory	BCH 3103L	3
Organic Spectroscopy	CHM 4230C	3
Introduction to Drug Formulation	CHM 4276C	3
Directed Independent Research in Chemistry	CHM 4915 or 4916	0-3
Bioanalytical Instrumentation Lab	CHM 4139L	2
Elective courses – At least 3 credits		
Any approved course at the 3000, 4000, 5000, 6000 levels from the Chemistry Department (CHM or BCH)		

This 14-credit certificate program is designed for individuals who have completed ~~higher~~ undergraduate level courses including Organic Chemistry 2 and Biochemistry 1. This certificate is also intended for individuals who plan to pursue a career in the biopharmaceutical industry.