FLORIDA ATLANTIC UNIVERISTY

New Combined Degree Program Request

UUPC Approval 3/27/23
UGPC Approval 3/22/23
UFS Approval _____
Banner Posted _____
Catalog _____

New Combined Degree Program Request

Proposed Program: B.S./M.S. Chemistry CIP: _____ Effective Date (Term/Year): fall / 2023 *(e.g. Fall/2020)*

Proposed Combined Program Information	Undergraduate	Graduate
Degree Level (e.g. B.A., B.S., M.A., M.S., etc.)	B.S.	M.S.
Program Name (e.g. Physics, Engineering, etc.)	Chemistry	Chemistry
College	Science	Science
Department	Chemistry and Biochemistry	Chemistry and Biochemistry
Program Description (provide a brief description of the program, including thesis or non-thesis option)	The joint B.S. / M.S. degree programs in the chemistry department allows students to complete both a bachelor's and a master's degree within five years. The undergraduate degree program requires 120 credits and the 30 credits for the graduate program. The combined degree program includes a minimum of 150 credits. Students may count 12 credits of graduate coursework (5000 level or higher) taken as an undergraduate. Students apply to the program during their junior year or upon completion of 60 credits of the bachelors in chemistry program at FAU.	

Curriculum Requirements

GPA Requirements: Departments must establish a minimum undergraduate GPA for students to be admitted to a combined program. *Note: Please attach explanation.*

A minimum undergraduate science GPA of 3.25 is required

List courses to be shared: Up to twelve (12) credit hours of graduate courses (5000 level or above course work) may be shared between the graduate and undergraduate degree for a combined program. *Note: Please attach explanation:*

- *Academic justification for shared credits and catalog language*
- *List the undergraduate course that will be replaced by graduate courses.*

	Name	Signature	Email	Date
Faculty Submitting Request	Tito Sempertegui	Tito Sempertegui	tsempert@fau.edu	03/01/2023

Approved by / ***Date***

Department Chair: Andrew Tebben's. — 3/1/2023
College Dean: [signature] —
College Curriculum Chair: [signature] — 3-16-23
UUPC Chair: Ethlyn Williams — 3/27/23
Undergraduate Studies Dean: Dan Moeroff — 3/27/23
(Note: Forward approved form to UGPC@fau.edu)
UGPC Chair: _____
UGC Chair: _____
Graduate College Dean: _____
UFS President: _____
Provost: _____

Email this form and supporting documents to mjenning@fau.edu seven (7) business days before the UUPC meeting.

For questions, contact the Graduate College at ugpc@fau.edu

Created: 09/04/2018

Addendum: Proposal for Combined BS/MS program in Chemistry

Program description
The joint BS/MS degree program allows students to complete both a BS degree and a non-thesis MS degree in Chemistry within five years. The combined degree program includes a minimum of 150 credits, where the undergraduate degree program requires 120 credits, and the graduate program requires 30 credits at graduate level. Students may count 12 credits of graduate coursework (5000 level or higher) taken as an undergraduate to satisfy both degrees. Students apply to the program during their junior year or upon completion of 60 credits in the BS in Chemistry program at FAU.

Justification
The goal of this program is to provide an opportunity for qualified undergraduates to pursue a graduate education in chemical science at FAU. This program would also have the benefit of increasing the number of students that graduate with an MS Chemistry degree. The presence of a greater number of MS students is also expected to make available a wider variety of graduate courses which will also benefit doctoral students in chemistry and allied fields. The availability of the BS/MS track is also expected to encourage increased participation in undergraduate research as students evaluate their interests in MS graduate studies.

Informal surveys indicate that the demand for a Chemistry BS/MS program is high. Accordingly, it is expected that the BS/MS program will increase degree production of the Chemistry Department and thereby contribute to positive Key Performance Indicators (KPIs), aligning with FAU strategic plans and with the goals of the State University System.

Admissions Requirements
Students must have completed 60 credits in the BS in Chemistry program at FAU and have a minimum undergraduate science GPA of 3.25. The GRE exam is not required.

Graduate Courses to Be Shared (12 credits)
Graduate courses that will count towards both the BS and MS degrees must be at the 5000 level or higher. The application of 12 graduate credits to both the undergraduate and graduate degrees is justified because of the academic continuity of the two programs.

List of undergraduate courses that can be replaced by their corresponding graduate courses.

Advanced Biochemistry	BCH 4035	BCH 6740	3
Bioanalytical Instrumentation	CHM 4139	CHM 6137	2
Organic Chemistry 3	CHM 4220	CHM 5224	3
Introduction to Drug Design	CHM 4273	CHM 6278	3
Introduction to Drug Development	CHM 4274C	CHM 6277C	3
Structural Biochemistry	CHM 4350	CHM 6351	3
Materials Chemistry	CHM 4714	CHM 5716	3
Directed Independent Research in Chemistry	CHM 4915	CHM 6918	1-3
Directed Independent Research in Chemistry	CHM 4916	CHM 6918	0-3
Organic Spectroscopy	CHM 4230C	CHM 6380	3
Introduction to Drug Formulation	CHM 4276C	CHM 6279C	3
Introduction to Chemical Biology	CHM 4300	BCH 6930	3
Medicinal Chemistry	CHM 4292	CHM 6428	3
Stereochemistry	CHM 4933	CHM 6380	3

Graduate Core Courses Required for the MS Degree (10 credits)
All students must register for Introduction to Chemical Research (CHM 5944) once admitted into the program. To fulfill requirements for the MS, students must also take the required core courses (see list below).

List of graduate core courses that are required for completion of the MS degree.

Introduction to Chemical Research	CHM 5944	1
Bioanalytical Methods and Applications	CHM 6137	2

Current Topics in Bioanalysis	CHM 6937	1
Kinetics and Energetics of Reactions	CHM 6720	3
Synthesis and Characterization	CHM 6730	3

Graduate Elective Courses Required for the MS Degree (20 credits)
Students must take 20 credits of elective courses in Chemistry (5000 or 6000-level) to complete requirements for the MS degree Non-Thesis option.

Degree Requirements
Students admitted to the program will fulfill all the requirements for both the BS and MS degree.

Funding Opportunities
Students admitted to the program are eligible for financial support in the form of Pathways Scholarships offered through the Graduate College.