# FLORIDA ATLANTIC UNIVERSITY™

## Graduate Programs—PROGRAM CHANGE REQUEST

UGPC APPROVAL _____

UFS APPROVAL _____

CATALOG _____

DEPARTMENT: CHEMISTRY AND BIOCHEMISTRY

COLLEGE: CHARLES E. SCHMIDT COLLEGE OF SCIENCE

PROGRAM NAME: MASTER OF SCIENCE WITH MAJOR IN CHEMISTRY

**EFFECTIVE DATE**
(PROVIDE TERM/YEAR)
SUMMER 2016

PLEASE EXPLAIN THE REQUESTED CHANGE(S) AND OFFER RATIONALE BELOW AND/OR ATTACHED:

THE DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY REQUESTS THE INTRODUCTION OF A NON-THESIS MASTER'S DEGREE OPTION THAT WILL BE USED FOR PHD STUDENTS WISHING TO EARN A MASTER'S DEGREE ALONG THE WAY. APPROPRIATE CATALOGUE CHANGES TO THE EXISTING M.S. DESCRIPTION AND THE ADDITION OF TEXT DESCRIBING THE NON-THESIS EN PASSANT OPTION ARE PROPOSED (SEE ATTACHED, CHANGES HIGHLIGHTED IN RED TEXT).

THE NEW TEXT ADDED TO THE M.S. DESCRIPTION UNDER THE "DEGREE PROGRAM" SUBHEADING HAS BEEN ADDED TO CLARIFY THE REQUIREMENTS FOR THE REGULAR M.S. WITH THESIS. THE DEGREE REQUIREMENTS ARE NOT NEW, BUT SIMPLY ADDED TO THE CATALOGUE DESCRIPTION TO PROVIDE FURTHER DETAIL.

WE ALSO REQUEST THE REMOVAL OF THE 1 CREDIT GRADUATE SEMINAR (THESIS) COURSE REQUIREMENT FROM THE CATALOGUE AND THE REDUCTION OF THE MINIMUM TOTAL CREDITS REQUIRED FOR THE M.S. DEGREE FROM 31 TO 30. STUDENTS ARE ALREADY REQUIRED TO DO THE GRADUATE SEMINAR (NON-THESIS) AND THEIR THESIS DEFENSE SERVES AS THEIR THESIS SEMINAR, FOR WHICH THEY ARE REQUIRED TO ENROLL IN MASTER'S THESIS. ENROLLMENT IN GRADUATE SEMINAR (THESIS) HAS NOT BEEN REQUIRED FOR MORE THAN A DECADE.

| Faculty contact, email and complete phone number: | Consult and list departments that might be affected by the change and attach comments. |
|---|---|
| Andrew Terentis, terentis@fau.edu, 561-809-9192 | |

| *Approved by:* | *Date:* |
|---|---|
| Department Chair: | 1/11/2016 |
| College Curriculum Chair: | |
| College Dean: | |
| UGPC Chair: | 4-6-2016 |
| Graduate College Dean: | 4-6-16 |
| UFS President: | |
| Provost: | |

Email this form and syllabus to *UGPC@fau.edu* **one week before** the University Graduate Programs Committee meeting so that materials may be viewed on the UGPC website prior to the meeting.

**Proposed Catalogue Changes:**

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## Master's Programs

### Master of Science with Major in Chemistry

Admission Requirements
In addition to the University's general graduate admission requirements, the typical prerequisite for admission to the Master of Science in the Department of Chemistry and Biochemistry is the Bachelor of Science degree in chemistry or its equivalent. Students must have achieved a minimum 3.0 GPA in the last 60 credits of undergraduate work, a "B" average in chemistry courses taken at the junior and senior undergraduate levels, or scores of at least 150 (verbal) and 152 (quantitative) on the Graduate Record Exam.

Degree Program
Master of Science (M.S.) students will be required to complete the three core courses as well as three electives. These electives may be selected from graduate-level courses offered in the Department of Chemistry and Biochemistry or other departments in the Charles E. Schmidt College of Science. Elective courses must be approved by the student's research advisory committee. Students must also write a thesis describing their research, which must be approved by the research advisory committee. The thesis must be successfully defended by the student in an oral exam with the research advisory committee. The student's research advisory committee must consist of at least three members, two of whom are members of the Chemistry and Biochemistry graduate faculty. One committee member must be from outside the Department of Chemistry and Biochemistry and must also hold an appointment to the graduate faculty. The minimum degree requirements are listed below.

| | |
|---|---|
| Introduction to Chemical Research (CHM 5944) | 1 |
| Instrumentation (CHM 6157) | 3 |
| Kinetics and Energetics (CHM 6720) | 3 |
| Synthesis and Characterization (CHM 6730) | 3 |
| Graduate Elective Courses | 9 |
| Graduate Seminar (non-thesis) (CHM 6935) | 1 |
| Master's Thesis (CHM 6971) | 10 |
| Minimum Degree Total | 30 |

### Master of Science along the way to the Ph.D. (Master's En Passant)

Ph.D. students wishing to earn the non-thesis Master's degree along the way are required to have passed the Ph.D. candidacy exam and have completed the following courses:

| | |
|---|---|
| Introduction to Chemical Research (CHM 5944) | 1 |
| Instrumentation (CHM 6157) | 3 |
| Kinetics and Energetics (CHM 6720) | 3 |
| Synthesis and Characterization (CHM 6730) | 3 |

| | |
|---|---|
| Graduate Elective Courses | 9 |
| Graduate Seminar (non-thesis) (CHM 6935) | 1 |
| Advanced Research in Chemistry (CHM 7978) | 10 |
| Minimum Degree Total | 30 |