**Chemistry PROGRAM (non-thesis option)**

**Master of Arts (M.A.) Degree**

**DEGREE INFORMATION**

**Program Admission Deadlines:**

**Fall**: February 15

**Spring**: October 1

**Minimum Total Hours:** 30

**Program Level:** Masters

**CIP Code:** 40.0501

**Dept. Code:** CHM

**Program (Major/College):** CHA AS

**Approved:** 1985

**CONTACT INFORMATION**

**College:** Arts and Sciences

**Department:** Chemistry

**Contact Information:** [www.grad.usf.edu](http://www.grad.usf.edu)

**Other Resources:** <http://chemistry.usf.edu> **PROGRAM INFORMATION**

**Accreditation:**

Accredited by the Commission on Colleges of the Southern Association of College and Schools.

**Major Research Areas:**

Opportunities for graduate study are available in such interdisciplinary and specialized areas as Analytical Chemistry, Chemical Education, Computer Modeling and Computational Chemistry, Drug Discovery and Delivery, Bioorganic and Bioinorganic Chemistry, Biophysical Chemistry, Electrochemistry, Environmental Chemistry, Enzymology, Inorganic Chemistry, Marine Chemistry, Medicinal Chemistry, Metal-Organic Framework Chemistry, Nanomaterials, Natural Products, Nucleic Acid Chemistry, Nuclear Magnetic Resonance, Organic Chemistry, Organocatalysis, Photochemistry, Physical Chemistry, Polymers, Spectroscopy, and Synthetic Organic Chemistry.

**ADMISSION INFORMATION**

Must meet University requirements (see Graduate Admissions) as well as requirements listed below.

**Program Admission Requirements**

Applicants must have earned a B.A. or B.S. degree in Chemistry.\* In addition, applicants must have the following:

* a baccalaureate degree in Chemistry or a closely related discipline.
* a preferred minimum score of 149V (430/800) and 147 Q (570/800) on the GRE (the Chemistry subject exam is not required, but recommended)
* a preferred minimum of a 3.00 grade point average (Based on a 4.00 scale) in all undergraduate coursework, as verified by an official transcript from the applicant’s undergraduate institution. at least three letters of recommendation from people familiar with the student’s academic background
* Applicants whose native language is not English must obtain at least a score of 79 on the Internet-based Test of English as a Foreign Language (TOEFL)

All applicants must submit GRE test scores taken within five (5) years of the desired term of entry. Official scores must be submitted to USF directly from the Educational Testing Service, but applicants may provide unofficial copies of their test scores to expedite the processing of their applications. Any admission granted using unofficial scores will not be finalized until official scores from ETS are received. To send your scores via ETS, the institution code for USF is 5828.

**DEGREE PROGRAM REQUIREMENTS**

**Total Minimum Program Hours – 30 credit hours (Post-Baccalaureate)**

Twenty six hours of formally structured courses, sixteen hours of which must be at the 6000 level, as approved by the student’s Supervisory Committee

**Core Requirements - 4 Hours**

CHM 6935 Department Seminar (4 Hours)

M.A. degree-seeking students must enroll in and receive satisfactory performance in four semesters (1 credit hour per semester) of CHM 6935 Department Seminar. Under exceptional circumstances, students may petition the Chemistry Graduate Studies Office for a waiver on a semester‐by‐semester basis if employment or other obligations conflict with the requirement, or if the student has completed his or her degree in less than four semesters.

**Electives - 26 hours**

Students select from the following list of 5000 or 6000 level courses in the Chemistry Department and/or related departments, such as Public Health, Education, Chemical Engineering, Physics, Biology, and Mathematics, with advisement of the student’s Supervisory Committee or the graduate coordinator.

[BCH5045](http://ugs.usf.edu/course-inventory/?output=detail&subj=BCH&num=5045) 3 [Biochemistry Core Course](http://ugs.usf.edu/course-inventory/?output=detail&subj=BCH&num=5045)

[BCH5105](http://ugs.usf.edu/course-inventory/?output=detail&subj=BCH&num=5105) 1-3 [Biochemistry Laboratory Rotations](http://ugs.usf.edu/course-inventory/?output=detail&subj=BCH&num=5105)

[CHM5225](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5225) 3 [Intermediate Organic Chemistry I](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5225)

[CHM5226](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5226) 3 [Intermediate Organic Chemistry II](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5226)

[CHM5452](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5452) 3 [Polymer Chemistry](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5452)

[CHM5621](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5621) 3 [Principles of Inorganic Chemistry](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5621)

[CHM5931](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5931) 1-3 [Selected Topics in Chemistry](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=5931)

[CHM6036](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6036) 3 [Chemical Biology](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6036)

[CHM6150](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6150) 3 [Advanced Analytical Chemistry](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6150)

[CHM6235](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6235) 3 [Spectroscopic Analysis of Organic Compounds](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6235)

[CHM6250](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6250) 3 [Advanced Organic Chemistry I: Synthesis](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6250)

[CHM6263](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6263) 3 [Advanced Organic Chemistry II: Physical-Organic](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6263)

[CHM6279](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6279) 3 [Introduction to Drug Discovery](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6279)

[CHM6936](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6936) 1 [Chemistry Colloquium](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6936)

[CHM6938](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6938) 1-3 [Selected Topics in Chemistry](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6938)

[CHM6945](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6945) 3 [Investigating Chemical Education Research in the United States](http://ugs.usf.edu/course-inventory/?output=detail&subj=CHM&num=6945)

**Comprehensive Exam**

**OTHER PROGRAM REQUIREMENTS**

**Optional Review Article**

In addition, the student may opt to prepare a review article on a topic approved by the student’s Supervisory Committee. The student should discuss this with his or her advisor and Supervisory Committee in advance, and follow the posted deadlines of the USF Office of Graduate Studies for completion of the degree requirements for that semester. While there is no requirement to orally present the article for a defense, the student or the student’s committee may opt to have an oral presentation. The final paper must be approved by all members of the student’s Supervisory Committee, and the approval form signed by all committee members must be submitted to the Chemistry Graduate Studies Office within five business days.

**Demonstration of Proficiency in Undergraduate Chemistry**

Upon entering the program, M.A. degree-seeking students will be administered proficiency examinations in the areas of Organic Chemistry, Inorganic Chemistry, Physical Chemistry, Analytical Chemistry, and Biochemistry. Based on the student’s performance on these examinations, appropriate coursework will be selected for the first semester in consultation with the graduate coordinator. Students may be exempted from taking one or more of these exams if documentation can be provided that proficiency has been demonstrated at another institution.

**Selection of a Supervisory Committee**

Within the first semester, the student should select an advisor and at least two other Ph.D.-level faculty as members of his or her Supervisory Committee, which will guide the student in selection/approval of additional coursework and the review article topic. All members of the Supervisory Committee must hold a Ph.D. degree, and at least two members must be tenured or tenure-track in the Chemistry Department. Upon selecting an advisor and Supervisory Committee, the student will submit to the Chemistry Graduate Studies Office a completed *Committee Selection* form bearing the signatures of all the committee members. Changes to the membership of the committee can be made by submitting a Change of Committee form to the Chemistry Graduate Studies Office.

**Annual Committee Meetings**

All graduate students are required to meet with their Supervisory Committee at least once each year, to update the committee members on their progress in coursework, research, and other related activities. *Following each committee meeting, the student must present to the Chemistry Graduate Studies Office within five business days the appropriate meeting form signed by all the committee members, and containing their recommendations, concerns or commentary on the student’s performance.*

**Laboratory Safety Training**

All graduate students who conduct research in a Chemistry department laboratory that handles hazardous substances, or who serve as a graduate teaching assistant in an undergraduate teaching laboratory, must receive annual laboratory safety training and certification from the USF Environmental Health and Safety office. Students may also elect to take *Safety in the Laboratory* for additional training.

**Compliance with Program Requirements**

All students must remain in compliance with all program requirements, and provide the requisite documentation to the Chemistry Graduate Studies Office within five business days of any committee meeting or committee action. The Chemistry Graduate Council will periodically review the standing of each student with regard to grade point average (GPA), scholarly progress, and teaching performance (in the case of teaching assistants). Appropriate disciplinary action may be required to correct deficiencies in the student’s performance or compliance, in concert with the student’s advisor and Supervisory Committee.

**Appeals**

In actions involving departmental requirements, petitions and appeals by the student will be directed to the Chemistry Graduate Council through the student’s advisor. In case a student has not selected an advisor, the appeal may be carried out through the graduate coordinator or through a chemistry faculty member selected by the student.