

## Graduate Certificate in Chemistry

### Director of Graduate Studies in Chemistry:

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### Program Description:

The Graduate Certificate Program in Chemistry provides students with thorough training in basic chemistry concepts at the graduate level. This program is appropriate for those who are graduates in chemistry or chemistry-related fields such as chemical engineering, industrial chemistry, pharmaceutical chemistry, pharmacology, and biochemistry who seek further training in chemistry but do not wish to go through the rigors of a thesis/dissertation-based graduate degree program. The focus is on exposure to advanced chemistry concepts, which will be particularly helpful for graduates planning to be secondary school teachers.

### Admittance Criteria:

- A four year BA or BS degree in chemistry or a closely related discipline
- A minimum GPA of 3.0
- General GRE
- Internet TOEFL: 79

### Courses:

This certificate program requires completion of a total of 18 credits from the following course offerings:

From Lecture Courses: Students take a **minimum of 9 credits** and **up to 18 credits** from the graduate level chemistry lecture courses. The following lecture courses are offered: CHEM 5318/6318 – Advanced Analytical Chemistry; CHEM 5321/6321 – Advanced Organic Chemistry 1; CHEM 5331/6331 – Advanced Biochemistry; CHEM 5351/6351 – Advanced Physical Chemistry 1; CHEM 5361/6361 – Advanced Inorganic Chemistry; CHEM 5322/6322 – Advanced Organic Chemistry 2; CHEM 5352/6352 – Advanced Physical Chemistry 2; CHEM 5319/6319 – Contemporary Topics in Analytical Chemistry; CHEM 5329/6329 – Contemporary Topics in Organic Chemistry; CHEM 5339/6339 – Contemporary Topics in Biochemistry; CHEM 5341/6341 – Analysis and Modeling of Biological Structures; CHEM 5359/6359 – Contemporary Topics in Physical Chemistry; CHEM 5369/6369 – Contemporary Topics in Inorganic Chemistry; CHEM 5301 – Modern General Chemistry

From Graduate Research: Graduate Research is not required, but **up to 9 credits** may count toward the graduate certificate: CHEM 5196/6196; CHEM 5396/6396