

SECONDARY EDUCATION – CHEMISTRY (6-12) UNDERGRADUATE CERTIFICATE

Banner Code: E1-CERB-SEEC

Academic Advising

Phone: 703-993-2080

Email: preteach@gmu.edu

Website: gse.gmu.edu/secondary-education-6-12/academics/secondary-education-chemistry-undergraduate-certificate

This 27-credit undergraduate certificate is available only to students pursuing a BA or BS in Chemistry. Students who complete both the BA or BS in Chemistry and this undergraduate certificate will be considered *Virginia state-approved educator preparation program completers* and will be eligible for recommendation for an initial VA teaching license in Secondary Education (6-12) Chemistry.

This certificate may be pursued on a part-time or full-time basis.

Admissions & Policies

Admissions

Students applying for this undergraduate certificate as a secondary program must have satisfied the following requirements:

- a minimum cumulative GPA of 3.00
- passing scores on the Virginia Department of Education (VDOE) prescribed entry assessment
- an official College of Education and Human Development review of discipline-specific content competencies coursework (note: a minimum grade of C (2.00) must have been attained in such coursework completed at Mason).

See website (<https://cehd.gmu.edu/teacher/think-you-want-to-be-a-teacher>) for more information on the admissions process.

Prior to application for internship, students are required to complete all discipline-specific content competency (<https://cehd.gmu.edu/endorse>) requirements, pass licensure assessments, and have earned a grade of B (3.00) or better in all licensure coursework.

Requirements

Certificate Requirements

Total credits: 27

Discipline-Specific Content Competencies Coursework

Coursework is additional to discipline-specific content competencies coursework satisfied with the core requirements of the major either for the BA or BS in Chemistry.

Inorganic Chemistry

Select 4 credits from the following:

4

CHEM 441 Properties and Bonding of Inorganic Compounds

CHEM 445	Inorganic Preparations and Techniques	
CHEM 446	Bioinorganic Chemistry	
CHEM 467	The Chemistry of Enzyme-Catalyzed Reactions	
Total Credits		4

Teacher Licensure Coursework

EDCI 473	Teaching Science in the Secondary School	3
EDCI 483	Advanced Methods of Teaching Science in Secondary School	3
EDCI 490	Student Teaching in Education (Mason Core)	6
EDCI 491	Internship Seminar in Secondary Training	2
EDRD 419	Literacy in the Content Areas	3
EDUC 372	Human Development, Learning, and Teaching (Mason Core)	3
EDUC 422	Foundations of Secondary Education	3
Total Credits		23