

CHEMISTRY PROGRAMS

The Integrated Master of Arts in Teaching (IMAT) program is a high impact, high quality, program designed to generate student desire to attain 6-12 teacher certification and to recruit highly qualified undergraduate STEM majors for the teaching profession. Graduates will earn a Bachelor's Degree (B.S.) in Chemistry AND a Masters of Arts in Teaching (MAT) through a streamlined program.

CHEMISTRY

B.S. in Chemistry with Integrated Master of Arts in Teaching

Core Areas A - E for Science Majors		42
Core Area F		18
(Grade of C or better is required in all Area F courses)		
CHEM 1211, 1212 Principles of Chemistry I, II	8	
CHEM 2810 Quantitative Analysis	5	
PHYS 1111 Introductory Physics I	4	
MATH 2011 Calculus and Analytic Geometry I (1 hour)	1	
Non-Core Courses		4-7
MATH 2011 Calculus and Analytic Geometry (if not in D)	0-3	
PHYS 1112 Introductory Physics II	4	
Major Concentration		34
(Grade of C or better is required in all these courses)		
CHEM 3411, 3412 Organic Chemistry I, II	8	
CHEM 3721 Physical Chemistry I	3	
CHEM 3810 Advanced Organic Chemistry	3	
CHEM 3820 Laboratory Management and Safety	2	
CHEM 4210 Advanced Inorganic Chemistry	3	
CHEM 4551, 4552 Biochemistry I, II	6	
CHEM 4553 Biochemistry Lab	1	
CHEM 4700 Integrated Lab	3	
CHEM 4800 Advanced Seminar	1	
CHEM 4840 Instrumental Analysis	4	
Departmentally Approved Electives		7-10
(Grade of C or better is required in all these courses.)		
Chosen to meet departmental guidelines and with assistance of the student's faculty advisor.		
SPED 4002 Instructional Strategies for Teaching Students With Disabilities in General Education		3
Physical Education		4

Successful application to the IMAT degree. A 2.75 overall GPA is required for application and a graduate GPA of 3.0 must be maintained throughout the graduate program.

EDTD 6364 Integrated Curriculum	3
EDTD 6491 Classroom Management	3
EDTD 6432 Multicultural Education	3
EDTD 6225 Reading Across Curriculum	3
EDTD 6381 or EDUC 6040 Assessment Course	3
EDUC 6020 Foundations Course	3
EDTD 6251 Best Practices in Science Education	3
EDTD 6950 Content Elective	3
EDTD Electives (3) selected with MAT advisor	9
EDTD 6910 Practicum	6

Total hours for IMAT degree 154

Completion of ACS Diagnostic of Undergraduate Chemistry Knowledge Exam with a minimum score of 25 correct