CHEMISTRY MAJOR - ACS CERTIFIED CURRICULUM

Requirements

Code	Title	Credits
CHEM 1171	General Chemistry I	4
&1171L	and General Chemistry I Lab	
CHEM 1172	General Chemistry II	4
&1172L	and General Chemistry II Lab	
CHEM 2271	Organic Chemistry I	4
& 2271L	and Organic Chemistry I Lab	
CHEM 2272	Organic Chemistry II	4
& 2272L	and Organic Chemistry II Lab	
CHEM 2282	Chemical Analysis	4
& 2282L	and Chemical Analysis Lab	
CHEM/BIOL 3323L	Biochemistry Lab	1
CHEM/BIOL 3324	Biochemistry I	3
CHEM 3326	Chemical Instrumentation	3
CHEM 3326L	Instrumental-Analytical Chemistry Lab	3
CHEM 3341	Advanced Inorganic Chemistry	5
& 3341L	and Advanced Inorganic Chemistry Lab	
CHEM 3361 & 3361L	Physical Chemistry I	4
CHEM 3362	and Physical Chemistry I Lab	4
CHEM 3362 & 3362L	Physical Chemistry II and Physical Chemistry II Lab	4
CHEM 4971	Besearch and Seminar I	3
MATH 1141	Calculus I for Chemistry, Engineering, and	4
MATE 1141	Physics Majors	4
or MATH 1171	Calculus I	
MATH 1142	Calculus II for Chemistry, Engineering, and Physics Majors	4
or MATH 1172	Calculus II	
MATH 2243	Calculus III for Chemistry, Engineering, and Physics Majors	4
or MATH 2273	Multivariable Calculus	
MATH 2251	Ordinary Differential Equations	3
PHYS 1171	General Physics I	4
&1171L	and General Physics I Lab	
PHYS 1172	General Physics II	4
& 1172L	and General Physics II Lab	
Total Credits		69

Notes:

- Students intending to enter primary or secondary school teaching should consult annually with the chairs of the departments of Chemistry and Education to facilitate scheduling of these curricula.
- Students intending to enter medical or dental school should consult with the Chair of the Chemistry Department and the Health Professions Advisor for appropriate modifications of this curriculum, which will include taking BIOL 1171 and BIOL 1172 in their first year

in place of PHYS 1171 and PHYS 1172, which are then taken in the sophomore year.

- Students may elect to take CHEM 3324 Biochemistry I or CHEM 3341 Advanced Inorganic Chemistry in their junior year.
- Note that the CHEM 4970-series Research and Seminar is a research elective to be coordinated with individual faculty members. It may be taken for one, two, or three credits. Students enroll in CHEM 4971 for their first semester of research, CHEM 4972 for their second semester, etc.
- Students are encouraged to participate in summer research experiences on or off campus. At the discretion of the Chemistry Department, involvement in summer research such as National Science Foundation Research Experience for Undergraduate Programs may be counted toward the research requirement for American Chemical Society certification. Each case will be evaluated individually by the department.
- All research for credit will be consistent with the American Chemical Society Committee for Professional Training guidelines.