Professional ACS Approved Chemistry Major (BA/BS) Check List

Note: This document is not legally binding: it is intended only to give guidance in planning one's program.

NO MINOR IS REQUIRED FOR THIS MAJOR

CHEMISTRY UNITS REQUIRED (49-50 UNITS)

Course #	**Course Title**	**Units**	**Prerequisites**
CHEM 102	Introductory Chemistry I	5	MATH 141 (C or better) or waiver thereof.
CHEM 104	Introductory Chemistry II	5	CHEM 102
CHEM 184	Introduction to Chemistry	1	
CHEM 251	Organic Chemistry I	3	CHEM 104
CHEM 252	Organic Chemistry II	3	CHEM 251
CHEM 261	Organic Chemistry Lab I	2	Co-requisite: CHEM 251
CHEM 262	Organic Chemistry Lab II	2	CHEM 261, CHEM 252 or concurrent. reg. in CHEM 252
CHEM 260	Introduction to Inorgan Chem	4	Chem 104
CHEM 352	Quantitative Analysis	5	CHEM 104
CHEM 370	Physical Chemistry I	3	CHEM 352; Co-requisites: MATH 254 and PHYS 141/181
CHEM 371	Physical Chemistry II	3	CHEM 352; Co-requisites: MATH 254 and PHYS 141/181
CHEM 470	Physical Chemistry Lab I	1	CHEM 370 (co-requisite)
CHEM 471	Physical Chemistry Lab II	1	CHEM 371 (co-requisite)
CHEM 454	Biochemistry I: Biochem of Macromolecules	3	BIOL 120 or 141 (C or better) and CHEM 251

CHEM 480	Instrumental Analysis	4	CHEM 252 and 352
CHEM 484	Chemistry Seminar	1	Consent of Instructor
Choose one from CHEM 455 (Adv. O-Chem), CHEM 456 (Biochem II) or CHEM 460 (Adv Inorgan Chem): 3-4 units			

MATHEMATICS UNITS REQUIRED (10 UNITS)

Course #	**Course Title**	**Units**	**Prerequisites**
MATH 253	Calculus and Analytic Geometry I	5	MATH 152
MATH 254	Calculus and Analytic Geometry II	5	MATH 253

PHYSICS UNITS REQUIRED (10 UNITS)

Course #	**Course Title**	**Units**	**Prerequisites**
PHYSICS 140	Principles of Physics I	5	Coreg. MATH 152
PHYSICS 141	Principles of Physics II	5	Physics 140
	OR		
PHYSICS 180	Physics for Scientists and Engineers I	5	Coreg. MATH 253
PHYSICS 181	Physics for Scientists and Engineers II	5	PHYSCS 180 or consent of instructor. Coreq: MATH 254