

EAST TENNESSEE STATE UNIVERSITY — COLLEGE OF ARTS AND SCIENCES
DEPARTMENT OF CHEMISTRY
CHEMISTRY MAJOR—ACS CHEMISTRY CONCENTRATION

Name: _____ E#: _____ Catalog Year: _____

TBR Requirements: See other check sheet

ACS Chemistry Concentration Core (22 cr)

CHEM 1110: General Chemistry I Lec	(F/S)	4 cr
CHEM 1111: General Chemistry I Lab	(F/S)	0 cr
CHEM 1120: General Chemistry II Lec	(F/S)	4 cr
CHEM 1121: General Chemistry II Lab	(F/S)	0 cr
CHEM 2010: Organic Chemistry I Lecture	(F/S)	3 cr
CHEM 2011: Organic Chemistry I Lab	(F/S)	2 cr
CHEM 2020: Organic Chemistry II Lecture	(F/S)	3 cr
CHEM 2021: Organic Chemistry II Lab	(F/S)	2 cr
CHEM 2220: Quantitative Analysis Lecture	(F/S)	2 cr
CHEM 2221: Quantitative Analysis Lab	(F/S)	2 cr

Additional Required Courses (25 cr)

CHEM 3110: Descriptive Inorganic Chemistry	(F)	3 cr
CHEM 3611: Introductory Integrated Lab	(F/S)	2 cr
CHEM 3750: Physical Chemistry I	(F)	3 cr
CHEM 3760: Physical Chemistry II	(S)	3 cr
CHEM 4010: Seminar in Chemistry	(F/S)	2 cr
CHEM 4110: Advanced Inorganic Chemistry	(S)	3 cr
CHEM 4200: Principles of Instrumental Analysis	(F)	3 cr
CHEM 4611: Advanced Integrated Lab— Dynamics	(F/S)	2 cr
CHEM 4621: Advanced Integrated Lab— Structures	(S)	2 cr
CHEM 4631: Adv. Integrated Lab— Analytical Tech.	(F)	2 cr

Pick one of the following (5 cr):

BIOL 4147: Biochemistry of Macromolecules Lec	(F)	3 cr
BIOL 4157: Biochemistry of Marcomolecules Lab	(F)	2 cr
BIOL 4167: Biochemistry of Metabolism Lec	(S)	3 cr
BIOL 4177: Biochemistry of Metabolism Lab	(S)	2 cr

Select three credit hours from the following:

CHEM4900: Research in Chemistry	(F/S)	1-3 cr
CHEM 4957: Special Topics in Chemistry	(F/S)	1-6 cr
CHEM 4817: Intro Industrial Chemistry	(F/S)	3 cr

Other Required Courses (16-18 cr):

MATH 1910: Calculus I	(F/S)	4 cr
MATH 1920: Calculus II	(F/S)	4 cr
PHYS 2010: General Physics I Non-Calc Lec	(F/S)	3 cr
PHYS 2011: General Physics I Non-Calc Lab	(F/S)	1 cr
PHYS 2020: General Physics II Non-Calc Lec	(F/S)	3 cr
PHYS 2021: General Physics II Non-Calc Lab	(F/S)	1 cr

OR

PHYS 2110: Technical Physics I-Calculus Based	(F)	5 cr
PHYS 2120: Technical Physics II-Calculus Based	(S)	5 cr

Other Bachelor of Science Required Courses

PHIL 2640: Science and the Modern World	(F/S)	3 cr
SPCH 2320: Argumentation and Debate		
PHIL 2030: Practical Reasoning	OR	(F/S) 3 cr

Elective Requirements

17-19 cr

Subject	Course #	Title	Hours

Student Signature: _____

Advisor Signature: _____

Advisor Printed Name: _____