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

Name:_____ **E#:**_____ **Catalog Year:** _____

TBR Requirements: See other check sheet

Chemical Physics Concentration Core (22 cr)		
CHEM 1110: General Chemistry I Lecture	(F/S)	4 cr
CHEM 1111: General Chemistry I Lab	(F/S)	0 cr
CHEM 1120: General Chemistry II Lecture	(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 (27 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
BIOL 4147: Biochem. of Macromolecules Lecture	(S)	3 cr
BIOL 4157: Biochem. of Macromolecules Lab	(S)	2 cr
OR		
BIOL 4167: Biochem. of Metabolism Lecture	(F)	3 cr
BIOL 4177: Biochem. Of Metabolism Lab	(F)	2 cr

Select three credit hours from the following:		
CHEM 4900: 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 (18cr)		
MATH 1910: Calculus I	(F/S)	4 cr
MATH 1920: Calculus II	(F/S)	4 cr
PHYS 2110: Technical Physics-Calculus Based	(F)	5 cr
PHYS 2120: Technical Physics-Calculus Based	(S)	5 cr

Required Physics courses beyond first year (5-6cr)	
PHYS 3010: Classical Mechanics ***or***	4 cr
PHYS 3610: Introduction to Atomic and Nuclear Physics	3 cr
PHYS 3410: Modern Physics Lab	2 cr

Pick two of the following (7-8)	
PHYS 3510: Biophysics	3 cr
PHYS 3710: Electricity and Magnetism	4 cr
PHYS 4007: Computational Physics	4 cr
PHYS 4117: Thermal and Statistical Physics	4 cr
PHYS 4617: Quantum Physics	4 cr

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

Elective Requirements			**3-5 cr**
Subject	Course #	Title	Hours

Student Signature:_____

Advisor Signature:_____

Advisor Printed Name:_____