

Undergraduate Advisor:
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UNIVERSITY OF NORTH TEXAS
 COLLEGE OF ARTS AND SCIENCES
 DEPARTMENT OF CHEMISTRY
 REQUIREMENTS FOR THE BACHELOR OF SCIENCE (B.S.)

Additional Contact Information:
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**MINOR* REQUIRED: (BIOLOGY, COMPUTER SCIENCES, EARTH SCIENCE, MATERIALS SCIENCE
 MATHEMATICS OR PHYSICS)**
 THIS IS NOT A DEGREE PLAN

NOTE: This degree requires a total of 120 credit hours of which at least 42 credit hours must be advanced (Junior (3000) or Senior (4000) level)

This degree may be certified as meeting the standards of the American Chemical Society.**

credit advanced
 hours hours

DEPARTMENTAL REQUIREMENTS

CHEMISTRY (42 hrs)

General (1410, 1420; and labs: 1430, 1440).....	8		
or Honors General (1413, 1423; and labs: 1430, 1440)			
Organic (2370, 2380; and labs: 3210, 3220).....	8		2
Quantitative Analysis (3451 and lab 3452) (Fall only).....	4		4
Physical Chemistry (3510, 3520; and labs: 3230, 3240) (3510-Fall, 3520-Spring).....	8		8
Advanced Inorganic (4610) (Fall only).....	3		3
Advanced Inorganic Lab (4620) (Spring only).....	1		1
Instrumental Analysis (4631 and lab 4632) (Spring only).....	4		4
Add! 6 hrs at senior level (4xxx) with <i>either</i> Option I or Option II			
Option I:			
Special Problems 4900 (<i>as individual research</i>)	2	} 4	
**Additional *CHEM 4xxx hours			
Option II:			
Special Problems 4900 (<i>as individual research</i>)	1	} 2	
Computational Chemistry 4660	3		
**Additional *CHEM 4xxx hours			
			6 6

**3 hours of BIOC 4540 is required for ACS certification and may be used as 3 of the required CHEM 4xxx hours

*CHEM 4940- Chemistry Seminar may not be used for a major or minor in chemistry, but may be used towards the 42 advanced hour requirement.

MATHEMATICS (13 hrs)

Introductory calculus (1710, 1720)	7
Linear algebra (2700)	3
Multivariable calculus (2730)	3

PHYSICS (8 hrs)

1710 (with lab 1730): Mechanics and Thermodynamics	4
2220 (with lab 2240): Electricity, Magnetism and Optics.....	4

MINOR* in MATHEMATICS, PHYSICS, BIOLOGY, COMPUTER SCIENCES

OR EARTH SCIENCE	6-20	6
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UNIVERSITY CORE REQUIREMENTS

<u>ENGLISH COMPOSITION & RHETORIC</u> (See A on attached sheets)	6
<u>CREATIVE ARTS</u> (See D on attached sheets)	3
<u>LANGUAGE, PHILOSOPHY, AND CULTURE</u> (See E on attached sheets)	3
<u>UNITED STATES HISTORY</u> (See F on attached sheets)	6
<u>AMERICAN GOVERNMENT</u> (See G on attached sheets).....	6
<u>SOCIAL AND BEHAVIORAL SCIENCES</u> (See H on attached sheets)	3
<u>COMPONENT AREA OPTION - CATEGORY I</u> (See I on attached sheets)	3
<u>COMPONENT AREA OPTION - CATEGORY II</u> (See J on attached sheets).....	3

Plus hours required for TOTAL of 120 42

*A minor area requires 6-20 credit hours of which at least 6 are advanced (see department for individual requirements).