

**BACHELOR OF SCIENCE IN BIOLOGY**  
**Secondary Composite Science Teacher Certification (Grades 8- 12)**

Greg Hale, College of Science, 817-272-3807, [grhale@uta.edu](mailto:grhale@uta.edu)

Nancy Hadaway, College of Education and Health Professions, 817-272-2240, [hadaway@uta.edu](mailto:hadaway@uta.edu)

<b>Submission Date</b>	<b>Degree Program Name</b>	<b>Certification Type</b>
April 2005	Bachelor of Science in Biology	8-12 Composite Science

Course #	Course Title	SCHs
<b>CORE Curriculum Component</b>		
ENGL 1301	Critical Thinking, Reading, and Writing I	3
ENGL 1302	Critical Thinking, Reading, and Writing II	3
ENGL/MODL	Literature or Modern Language Literature (any course)	6
HIST 1311	History of the United States	3
HIST 1312	History of the United States	3
POLS 2311	Government of the United States	3
POLS 2312	State and Local Government	3
MATH 1323	Pre-Calculus	3
MATH 1426	Calculus I	4
BIOL 1441	Cell and Molecular Biology	4
BIOL 1442	Structure and Function of Organisms	4
SOCIAL/CULTURAL STUDIES	Social and Cultural Studies, Communications, Economics, Health, Humanities, Cultural or Women's Studies (any course)	3
FINE ARTS	Art, Architecture, Dance, Music or Theatre Arts (any course)	3
Subtotal		45
<b>Major Courses (lower division)</b>		
BIOL 1441	Cell and Molecular Biology (Counted in CORE)	4*
BIOL 1442	Structure and Function of Organisms (Counted in CORE)	4*
BIOL 2300	Introduction to Biostatistics	3
BIOL 2343	Evolution, Ecology and Biodiversity	3
CHEM 1441	General Chemistry	4
CHEM 1442	General Chemistry	4
CHEM 2321	Organic Chemistry	3
CHEM 2181 / 2182	Organic Chemistry Laboratory	2
CHEM 2322	Organic Chemistry	3
PHYS 1441	General College Physics I	4
PHYS 1442	General College Physics ii	4
GEOL 1425	Earth Systems	4
GEOL 1426	Earth History	4
<b>Major courses (upper division)</b>		
BIOL 3315	Genetics	3
BIOL 3327	Plant Science	3
BIOL 3183	Plant Science Laboratory	1
BIOL 3454	General Zoology	4
BIOL	Biology (any courses – must include at least one lab course)	11
Subtotal		60
<b>Education courses and Reading</b>		
EDUC 4341	Organization and Management of Instruction in Secondary Schools	3
EDUC 4342	Applications of Instruction in Secondary Classrooms	3
EDUC 4352	Teaching Diverse Populations	3
EDUC 4647	Secondary Teacher Preparation Residency with Technology Applications	6
EDML 4300	Pre-Adolescent/Adolescent Growth and Development	3
EDTC 4301	Technology Applications	3
READ 4343	Content Reading and Writing	3
Subtotal		24
Total		<b>129</b>

\* indicates a course that has been counted previously in the CORE