

**BIOLOGY, CONCENTRATION—TEACHER CERTIFICATION FOR GRADES 7-12 ACADEMIC MAP:  
DEGREE BS (124 CREDIT HOURS)**

This degree map is a semester-by-semester course schedule for students majoring in [Biology with a concentration in Teacher Certification for Grades 7-12](#). The milestones listed to the right of each semester are designed to keep a student on track to graduate in four years. The schedule serves as a general guideline to help build a full schedule each semester. Milestones are courses and special requirements necessary for timely progress to complete a major. When one or more milestones are missed, a student should consult with an academic advisor to determine if another degree path would be more suitable.

The Biology Department at Tennessee State University offers three (3) specialized areas of study in which students may earn a bachelor's degree - General Biology, Cell and Molecular Biology, and Biology with Teachers Certification. Biology majors are assigned an academic advisor from the Department's faculty as soon as they declare a major. This advisor can answer all questions pertaining to meeting degree requirements. All majors are expected to maintain a 2.0 GPA and are required to earn a "C" grade or higher in all biology core courses. If a student earns a "D" grade, he or she must retake the course and earn an acceptable grade in order for it to meet degree requirements. The Department advisor can assist students who are on probation or having difficulty passing courses.

Biology students who select the Teacher Certification tract must (a) apply for admissions to the Teacher Education, (b) have a minimum GPA of 2.75, (c) pass a criminal background check, and (d) earned grades of "C" or higher in all freshmen and sophomore classes. It should also be noted that during the junior and senior years required courses in Teacher Education are offered in Block Schedule which requires students to enroll only during specific semesters. Successfully completing all degree requirements will result in the student being a licensed teaching profession.

Tennessee State University recognizes that students have diverse learning, life, and professional experiences. The University provides opportunities for students to earn college credit toward the degree through a number of assessment options that evaluate their learning experiences. These paths are grouped under the category "Prior Learning Assessment" (PLA). Various means of earning PLA credit at TSU are the following: Advance Placement Program, American Council of Education (ACE) Military Credit, American Council on Education (ACE) other Assessed Credit, College Level Exam Program (CLEP), DSST Credit by Examination Program (includes DANTES Examination), Institutional Course Challenge Exams (Departmental Exams), International Baccalaureate Credit, Other Military Service, Portfolio Assessment. To learn more about PLA contact your academic advisor or the Office of Student Support Services for Adult and Distance Learners (615) 963-7001.

**Department Chair:**

**Mapping Coordinator:** Dr. Elaine Martin, Email: [emartin@tnstate.edu](mailto:emartin@tnstate.edu)

**Department Web Address:** <http://www.tnstate.edu/biology/bsbiologyteachercert712.aspx>

First Year Fall Schedule		Milestones
Semester 1	Hrs.	Semester 1
BIOL 1110/1111 or BIOL 1112/1113*	4	Pre-Requisite Course: Must be taken before BIOL 2010/2011, BIOL 2120/2121, BIOL 3210/3211 BIOL 4120/4121; Minimum Grade of "C" Required
CHEM 1110/1111**	3	Pre-Requisite Course: Must be taken before BIOL 3210/3211
ENGL 1010	3	Pre-Requisite Course: Must be taken before ENGL 1020, and HIST 2010, HIST 2020, HIST 2030, HIST 2050 or HIST 2700; Minimum grade "C" Required
HPSS 1510	3	
UNIV 1000***	1	
<b>Total Hours</b>	<b>15</b>	

\*BIOL 1112/1113 is limited to students in the University Honors Program.

\*\*Students must have taken either High School Chemistry earning at least a 75% or CHEM 1000/1001 and two years of High School Algebra before enrolling in CHEM 1110/1111.

\*\*\*An Orientation course taken at another University does **NOT** meet this requirement. Students with less than 60 credit hours must take UNIV 1000 at TSU.

First Year Spring Schedule		Milestones
<b>Semester 2</b>	<b>Hrs.</b>	<b>Semester 2</b>
BIOL 1120/1121 or BIOL 1122/1123*	4	Prerequisite Course: Must be taken before BIOL 4120/4121 Minimum Grade of "C" Required
CHEM 1120/1121	3	Prerequisite Course: Must be taken before CHEM 1110/1111, CHEM 2010/2011
ENGL 1020	3	Pre-Requisite Course: Must be taken before HIST 2010, HIST 2020, HIST 2030, HIST 2050 or HIST 2700; Minimum grade "C" Required
MATH 1720 or higher	3	Prerequisites: MATH 1710 or permission of Math Department Chair If placed lower than MATH 1720, students must take course or courses required for entry into MATH 1720.
HUMANITIES**	3	
<b>Total Hours</b>	<b>17</b>	

\*BIOL 1122/1123 is limited to students in the University Honors Program.

\*\*Students must take a 3 credit hour course from the following list of approved general education Humanities courses: AREN 2310, ART, 1010, HIST 1000, THTR 1020, MUSC 1010, PHIL 1030, or RELS 2010.

Second Year Fall Schedule		Milestones
<b>Semester 3</b>	<b>Hrs.</b>	<b>Semester 3- Declare Biology with Teacher Certification as Major Meet with Academic Advisor Praxis I Exams-or fulfill the composite score on the ACT-22 or SAT-1020)</b>
BIOL 2010/2011	4	Prerequisite Course: BIOL 1110 and 1111 and 1120 and 1121 Minimum Grade of "C" Required
CHEM 2010/2011	3	Prerequisite Course: Must be taken before CHEM 2020/2021
ENGLISH LIT*	3	
HISTORY*	3	
EDCI 2010	3	Minimum Grade of "C" Required
<b>Total Hours</b>	<b>17</b>	

\*Courses within the range of ENGL 2012 through ENGL 2322 will meet this requirement

\*\*The Department recommends HIST 2010; however, HIST 2030, HIST 2050, HIST 2060 or HIST 2700 satisfy this requirement.

Second Year Spring Schedule		Milestones
<b>Semester 4</b>	<b>Hrs.</b>	<b>Semester 4 Apply for Admission to Teacher Education/Pre-Residency Block I</b>
BIOL 2120/2121	4	Prerequisite Course: Must be taken before BIOL 4121/4121; Minimum Grade of "C" Required
CHEM 2020/2021	3	
HISTORY*	3	
COMM 2200	3	
PSYC 2420	3	Minimum Grade of "C" Required
<b>Total Hours</b>	<b>17</b>	

\*The Department recommends HIST 2010; however, HIST 2030, HIST 2050, HIST 2060 or HIST 2700 satisfy this requirement. Remember not to duplicate courses from a previous semester.

Third Year Fall Schedule		Milestones
<b>Semester 5</b>	<b>Hrs.</b>	<b>Semester 5</b> <b>Block 1 - Pre-Residency</b> <b>Praxis II -Biology (7-12) Content Knowledge</b>
BIOL 3200/3201, BIOL 3210/3211 or BIOL 3400/3401 or BIOL 4300/4301	4	Minimum Grade of "C" Required
ART 1010	3	
PHYS 2010/2011	3	
SOCI 2010	3	
BIOL 4130 or 4140	3	Minimum Grade of "C" Required
<b>Total Hours</b>	<b>17</b>	

Third Year Spring Schedule		Milestones
<b>Semester 6</b>	<b>Hrs.</b>	<b>Semester 6</b> <b>Block 2 - Pre-Residency</b> <b>Apply for Admission to Residency 1</b>
BIOL 4120/4121	4	Minimum Grade of "C" Required
PHYS 2020/2021	4	
EDCI 3870	3	Co-requisite Course: EDCI 3870; Prerequisite: Admission to Teacher Education
EDRD 4910	3	Co-requisite Course: EDCI 3870; Prerequisites: Admission to Teacher Education
<b>Total Hours</b>	<b>14</b>	

\*All Teacher Education courses are required and will only be offered during the indicated semesters of the third and fourth years.

Fourth Year Fall Schedule		Milestones
<b>Semester 7</b>	<b>Hrs.</b>	<b>Semester 7</b> <b>Block 3 – Residency I</b> <b>Admission to Residency I and CPR Certification is Required</b> <b>Praxis II Exam: <i>Principles of Learning and Teaching (7-12)</i></b>
*BIOL 3710	3	Co-requisite Courses: EDCI 4620, and EDSE 3330; Prerequisites: Admission to Teacher Education program, Minimum Grade of "C" Required
BIOL 4170 or 4180	1	Minimum Grade of "C" Required
*EDCI 4620	6	Co-requisite Courses: BIOL 3710 and EDSE 3330; Prerequisites: Admission to Teacher Education program, Approximately 90-100+ hours in-field placement Minimum Grade of "C" Required
*EDSE 3330	3	Prerequisites: Admission to Teacher Education program Co-requisite Courses: BIOL 3710, and EDCI 4620; Minimum Grade of "C" Required
<b>Total Hours</b>	<b>13</b>	

\* All Teacher Education courses are required and will only be offered during the indicated semesters of the third and fourth years.

Fourth Year Spring Schedule		Milestones
		Take Senior Exit Exam and Apply for Graduation
<b>Semester 8</b>	<b>Hrs.</b>	<b>Semester 8</b> <b>Block 4 – Residency II</b> Successful Completion of Residency I (Block 3) and ALL Praxis II are required to Enroll in these Courses.
*BIOL 4724	9	Co-requisite Course: EDCI 4705

		This course is 16 weeks, Mon. thru Fri. Field Placement Minimum Grade of "B" Required
*EDCI 4705	3	Co-requisite Course: BIOL 4724 Minimum Grade of "C" Required
<b>Total Hours</b>	<b>12</b>	

\* All Teacher Education courses are required and will only be offered during the indicated semesters of the third and fourth years.

**Employment Information:**

This concentration is intended to prepare a student for teacher certification in Tennessee and other states.

**Representative Job Titles Related to this Major:**

Teacher

**Representative Employers:**

Public and private high schools and middle schools

**International study is available for all TSU students and may include opportunities for internships or taking course work towards various minors.** International study may have an impact on the MAP; therefore, it is important to consult with the academic advisor for this major before participating in an international Program opportunity. Students interested in study abroad opportunities should contact the Office of International Programs and consult with their academic advisor.

This map is not intended to be a contract; either expressed or implied, between the University and the students, but represents a flexible program of the current curriculum which may be altered from time to time to carry out the academic objectives of the University. TSU specifically reserves the right to change, delete or add to any MAP at any time within the student's period of study at the University