

BIOLOGY WITH TEACHER CERTIFICATION LICENSURE FOR GRADES 7-12 ACADEMIC MAP: DEGREE BS (122 CREDIT HOURS)

This degree map is a semester-by-semester sample course schedule for students majoring in **Biology with Teacher Certification Licensure 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: Advanced Placement Program, American Council of Education (ACE) Military 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 at (615) 963-7001 or adultstudentsupport@tnstate.edu.

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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 2110/2111,
		BIOL 2120/2121, BIOL 3200/3201, BIOL 4120/4121; Minimum
		Grade of "C" Required.
CHEM 1110/1111**	4	Pre-Requisite Course: Must be taken before CHEM 1120/1121;
		This is a required support course for BIOL majors.
ENGL 1010	3	Pre-Requisite Course: Must be taken before ENGL 1020, and HIST
		2010, HIST 2020, HIST 2030, HIST 2060, HIST 2070, or HIST 2700;
		Minimum Grade "C" Required.
HPSS 1510	3	
UNIV 1000***	1	
Total Hours	15	

^{*}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
Semester 2	Hrs.	Semester 2
BIOL 1120/1121 or BIOL 1122/1123*	4	Pre-Requisite Course: Must be taken before BIOL 2110/2111
		Minimum Grade of "C" Required.
CHEM 1120/1121	4	Pre-Requisite Course: Must be taken before CHEM
		2010/2011; This is a required support course for BIOL majors.
ENGL 1020	3	Pre-Requisite Course: Must be taken before taking HIST 2010,
		HIST 2020, HIST 2030, HIST 2060, HIST 2070, 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	
Total Hours	17	

^{*}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: MUSC 1010, THTR 1020, PHIL 1030, or RELS 2010.

Second Year Fall Schedule		Milestones
Semester 3	Hrs.	Semester 3
		Students should meet with an academic advisor and declare Biology with Teacher Education as a major. Take the Praxis Core Exams-Reading 571 (qualifying score 156), Writing 5722 (qualifying score 162) and Math 5732 (qualifying score 150) or students may be exempted from the Praxis Core if they have scored 2 or above on the ACT or 102 or above on the SAT before applying for admission to Teacher Education in Semester 4.
BIOL 2110/2111	4	Minimum Grade of "C" Required. This is a required course for BIOL majors.
CHEM 2010/2011	4	Prerequisite Course: Must be taken before CHEM 2020/2021; This is a required support course for BIOL majors.
ENGLISH LIT*	3	
HISTORY**	3	
EDCI 2010	3	Minimum Grade of "C" Required.
Total Hours	17	

^{*}Courses within the range of ENGL 2012 --- ENGL 2320 will meet this requirement

^{**}The Department will accept any History course from the following list: HIST 2010; HIST 2020, HIST 2030, HIST 2060, HIST 2070 or HIST 2700 to satisfy the requirement.

Second Year Spring Schedule		Milestones
Semester 4	Hrs.	Semester 4
		Apply for Admission to Teacher Education. To do so, students must have a minimum GPA of 2.75, satisfactory report on a criminal background check, a successful interview, and a satisfactory writing sample.
BIOL 2120/2121	4	Pre-Requisite Course: Must be taken before BIOL 4120/4121; Minimum Grade of "C" Required.
CHEM 2020/2021	4	This is a required support course for BIOL majors.
HISTORY*	3	
COMM 2200	3	
PSYC 2420	3	Minimum Grade of "C" Required.
Total Hours	17	

^{*}The Department will accept any History course from the following list: HIST 2010; HIST 2020, HIST 2030, HIST 2060, HIST 2070, or HIST 2700 to satisfy the requirement. Students must remember not to duplicate courses from a previous semester.

Third Year Fall Schedule		Milestones
Semester 5	Hrs.	Semester 5
		Block 1-Pre-Residency
		Pre-requisite: Take the Praxis II Exam: 5235-Biology: Content Knowledge (7-12) (qualifying score 148). At the beginning of this semester, students must make application to the Teacher Education Program (Pre-Residency). A GPA of 2.75 is required and must be maintained throughout the program.
BIOL 3200/3201 or BIOL 3210/3211 or	4	Minimum Grade of "C" Required
BIOL 3400/3401 or BIOL 4300/4301		
ART 1010	3	
PHYS 2010/2011	4	Pre-Requisite course: Must be taken before PHYS 2120/2121.
		This is a required supporting course for BIOL majors.
SOCI 2010	3	
BIOL 4130 or 4140	3	Minimum Grade of "C" Required.
Total Hours	17	Note: Junior and senior students must enroll in Teacher Education/Blocked courses during the semesters indicated on this map.

Third Year Spring Schedule		Milestones
Semester 6	Hrs.	Semester 6
		Block 2 - Pre-Residency
		Pre-requisite: Students must be admitted to Pre-Residency Block
		2 in order to enroll in the courses listed for this semester. During
		this semester, students must apply for admission to Residency I.
BIOL 4120/4121	4	Minimum Grade of "C" Required.
PHYS 2020/2021	4	This is a required support course for biology majors.
EDCI 3870*	3	Co-requisite Course: EDRD 4910; Prerequisite: Admission to
		Teacher Education
EDRD 4910*	3	Co-requisite Course: EDCI 3870; Prerequisites: Admission to
		Teacher Education
Total Hours	14	

^{*}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
Semester 7	Hrs.	Semester 7
		Block - Residency I Pre-requisites: admission to Residency I, CPR Certification, and Praxis I Exam: 5624-Principles of Learning and Teaching (7-12) (qualifying score 155) During this semester, students must apply for admission to Residency II.
BIOL 3710*	3	Co-Requisite Courses: EDCI 4620, and EDSE 3330; 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; As a part of Residency I, Teacher Licensure students must complete 90-100 hours of co-teaching/field placement in EDCI 4620. Minimum Grade of "C" Required.
EDSE 3330*	3	Co-Requisite Courses: BIOL 3710, and EDCI 4620; Minimum Grade of "C" Required.
Total Hours	13	

^{*}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
Semester 8	Hrs.	Semester 8
		Block – Residency II
		Pre-Requisites: Students must be admitted to Residency II in
		order to enroll in BIOL 4724 and EDCI 4705. At this point in the
		program, students must have successfully completed all
		requirements for Block 3 Residency I and ALL Praxis Exams are
		required to enroll in courses for this semester.
		Take Senior Exit Exam and Apply for Graduation
BIOL 4724*	9	Co-Requisite Course: EDCI 4705; Minimum Grade of "B"
		Required. A student who earns a grade of "C" or "D" in Student
		Teaching may graduate from the University, however, they will
		not be recommended for licensure.
EDCI 4705*	3	Co-Requisite Course: BIOL 4724
		Minimum Grade of "C" Required
		Student Teaching lasts 16 weeks / Mon-Fri.
Total Hours	12	NOTE: At the end of Student Teaching, students must complete
		the edTPA (portfolio) and Teacher Education Exit Interview.

^{*}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, Laboratory Technician, Researcher, Physician, Dentist, Environmental Specialist, Cell Biologist, Herpetologist, Food Microbiologist, Ecologist, Molecular Biologist, Immunologist, etc.

Representative Employers:

Public and private high schools and middle schools, Education Institutions

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 academic 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.