

Add-On Endorsement Program of Study for Biology 6-12 (TN Code 126)

Minimum Credit Hours: 21

EAST TENNESSEE STATE UNIVERSITY Clemmer College of Education and Human
Development (Revised March 18, 2026)

Student Name:

E#:

Required Courses:

- BIOL 1110/11: Biology for Science Majors Lecture and Lab I (4 credits)
- BIOL 1121/21: Biology for Science Majors Lecture and Lab II (4 credits)
- BIOL 1130/31: Biology for Science Majors Lecture and Lab III (4 credits)
- BIOL 3100: General Genetics (3 credits)

Choose a minimum of 6 credits by taking two courses
from different levels in the Advanced Biology Elective
Menu:

Molecular Level

- BIOL 3150: Cell Biology (3 credits)
- BIOL 4147: Biochemistry of Macromolecules (3 credits)
- BIOL 4167: Biochemistry of Metabolism (3 credits)
- BIOL 4597: Recombinant DNA Lab (3 credits)
- BIOL 4647: Molecular Biology (3 credits)

Organismal Level

- BIOL 3220: Comparative Anatomy (4 credits)
- BIOL 3230: Vertebrate Embryology (4 credits)
- BIOL 3260: Animal Physiology (4 credits)
- BIOL 4357: Ethology (3 credits)

- BIOL 4367: Plant Physiology (4 credits)
- BIOL 4267: Plant Development (4 credits)
- BIOL 4277: Neurobiology (4 credits)

Population Level

- BIOL 3550: Ecology (4 credits)
- BIOL 4360: Evolution (3 credits)
- BIOL 4737: Conservation Biology (4 credits)
- BIOL 4747: Population Genetics (4 credits)
- BIOL 4867: Marine Biology (4 credits)
- BIOL 4337: Plant Systematics (4 credits)

Biodiversity Level

- BIOL 3410: Vertebrate Zoology (4 credits)
- BIOL 3460: Invertebrate Zoology (4 credits)
- BIOL 3480: General Entomology (4 credits)
- BIOL 4450: Bryophytes, Ferns, and Seed Plants (4 credits)
- HSCI 3320/21: General Microbiology (4 credits)
- HSCI 2230/31: Intro to Microbiology (4 credits)
- BIOL 3420: Plant Biology (4 credits)

Instructions and Information:

- Contact the Certification Coordinator, Clemmer College of Education and Human Development, at telephone (423) 439-7562 or email teacherlicensure@etsu.edu. Office is located in 305 Warf-Pickel Hall.
- Teacher education students who are pursuing initial teaching license and wish to add credits toward an add-on endorsement may do so. Please be advised: an add-on program does not necessarily meet the requirements of a minor, and substitutions or approvals made for add-ons do not take the place of catalog requirements or departmental advisement for degree purposes.
- Courses counted toward an add-on must have a minimum grade of “C” (2.0) or equivalent unless otherwise stated in this program of study.
- Add-ons will not be verified unless all requirements for initial Tennessee teaching license are met.

- This endorsement can be added by coursework only, that is, by completing this add-on endorsement program of study, and does not require passing a content area assessment.
- When coursework is complete, please contact the Certification Coordinator to request the college submit the endorsement recommendation to your account in TNCompass.