



Approved Biology Endorsement Courses

Washington state teachers must be certified to teach *and* must hold an endorsement in a teaching subject. To be eligible for an endorsement, applicants must complete college-level coursework--with a 2.0/C grade or higher--in their endorsement subject to demonstrate their knowledge and understanding of various topics in the discipline. Specific endorsement competency areas are outlined by the [State of Washington Professional Educator Standards Board](#).

Biology Introductory Sequence with Lab (3 courses)

- B BIO 180 Introductory Biology I with Lab
- B BIO 200 Introductory Biology II with Lab
- B BIO 220 Introductory Biology III with Lab

Biology with Laboratory (2 courses)

- B BIO 180 Introductory Biology I
- B BIO 200 Introductory Biology II
- B BIO 220 Introductory Biology III
- B BIO 351 Principles of Anatomy & Physiology I
- B BIO 352 Principles of Anatomy & Physiology II
- B BIO 370 Microbiology
- B BIO 471 Plant Ecology

Anatomy & Physiology or Animal Physiology (1 course)

- B BIO 130 Introduction to Marine Life
- B BIO 330 Marine Biology
- B BIO 351 Principles of Anatomy & Physiology I
- B BIO 352 Principles of Anatomy & Physiology II

Ecosystems (1 course)

- B BIO 330 Marine Biology
- B BIO 471 Plant Ecology
- BES 312 Ecology
- BES 331 Estuarine Science and Management (not offered consistently)
- BES 362 Introduction to Restoration Ecology
- BES 486 Watershed Ecology and Management (not offered consistently)
- BES 488 Wetland Ecology (not offered consistently)
- BES 489 Pacific Northwest Ecosystems (not offered consistently)
- BES 490 Pacific Northwest Plants in Restoration and Conservation (not offered consistently)

BIS 244 Wetlands Discovery (not offered consistently)

Evolution/Genetics (1 course)

B BIO 231 Genes, Genomes and Heredity (offered jointly with BISSTS 231)

B BIO 233 Cancer: Biology, Risk, and Treatment

B BIO 360 Introduction to Genetics

B BIO 466 Evolution

Cell Biology (1 course)

B BIO 240 Fundamentals of Cellular Biology for Nursing & Allied Health

B BIO 380 Cell Biology

Social Justice Issues in Science or Science in Society (1 course)

B BIO 231 Genes, Genomes, and Heredity

B BIO 232 Embryos, Genes, and Reproductive Technology

B BIO 233 Cancer: Biology, Risk, and Treatment

B BIO 305 The Science and Ethics of Stem Cells

B BIO 310 Brain and Behavior

B BIO 335 Salmon and Society

BES 331 Estuarine Science and Management (not offered consistently)

BES 362 Introduction to Restoration Ecology

BES 485 Conservation Biology

BES 489 Pacific Northwest Ecosystems (not offered consistently)

BIS 240 Sustainable Practices

BIS 241 Nature and the Northwest

BIS 243 Environmental Issues

BIS 307 Environmental Justice

BIS 356 Ethics and Environment

BIS 358 Issues in Environmental Science (not offered consistently)

BIS 360 Pollinator Diversity and Conservation

BIS 380 Bioethics

BIS 391 Environmental History of Pacific Northwest Bioregion (not offered consistently)

BIS 395 Environmental Change in Washington State (not offered consistently)

BIS 405 Environmental Education

BIS 411 Biotechnology and Society (not offered consistently)

BIS 459 Conservation and Sustainable Development

BST 205 Women in STEM

BISSTS 307 Science, Technology, and Society

BISSTS 420 Race, Gender, Science, and Medicine

Calculus or Statistics (1 course)

STMATH 124 Calculus I

STMATH 341 Introduction to Statistical Inference~

BIS 215 Understanding Statistics

B MATH 144 Calculus for the Life and Social Sciences

B MATH 215 Statistics for Health Sciences

Chemistry Introductory Sequence (3 Courses)

B CHEM 143+144 General Chemistry I + Lab

B CHEM 153+154 General Chemistry II + Lab

B CHEM 163+164 General Chemistry III + Lab

Conducted & Presented Research or Lab Internship (1 course)

B BIO 495 Investigative Biology

B BIO 499 Undergraduate Research in Biology

BES 491 Undergraduate Research in Environmental Science (not offered consistently)

BES 498 Independent Research in Environmental Science

Note: Depending on topic, Special Topics courses may meet endorsement requirements. Please submit [Endorsement Course Syllabus Review](#) Form to have a course considered for an endorsement area.