

Life Science 8-12 Course Requirements

In order to be admitted to the program and pursue certification in Life Science 8-12, you must have 24 hours of coursework in the designated areas and 12 of these hours must be upper level (junior or senior designation).

Course	Title	Hours
BIOL 111 BIOL 113 & 123 BIOL 101	Introductory Biology I Introductory Biology & Introductory Biology lab Botany	4
BIOL 112 BIOL 114 & 124 BIOL 107	Introductory Biology II Introductory Biology & Introductory Biology lab Zoology	4
BIOL 301 BIOL 304 BIOL 328 BIOL 453 RLEM 302 RLEM 303 RLEM 304 PLPA 301 & 303	Botany Taxonomy of Flowering Plants Comparative Biology of Plants People and Plants Plant Anatomy Rangeland Plants of North America Agrostology Rangeland Plant Taxonomy Plant Pathology and Plant Pathology lab	3-4
BIOL 318 BIOL 319 BIOL 320 WFSC 302 VIBS 305 BIOL 335 WFSC 335 ENTO 301 ENTO 305 ENTO 306 ENTO 313	Zoology- Vertebrates Chordate Anatomy Integrated Human Anatomy & Physiology I Integrated Human Anatomy & Physiology II Natural History of Vertebrates Biomedical Anatomy Zoology – Invertebrates Invertebrate Zoology Natural History of Invertebrates Biodiversity and Biology of Insects Evolution of Insect Structure Insect Physiology Biology of Insects	3-4
BIOL 413 & 423 BIOL 351 VTPB 405 AGRO 405 BESC 401	Microbiology / Cell Biology Cell Biology & Cell Biology lab Fundamentals of Microbiology Biomedical Microbiology Soil Microbiology Bioenvironmental Microbiology	3-4
BIOL 357 RENr 205 & 215 RLEM 316 WFSC 403 WFSC 420 & 409 ENTO 424	Ecology Ecology Fundamentals of Ecology & lab Rangeland Communities & Ecosystems Animal Ecology Ecology and Society & Integrating Natural Resources for Classroom Use Insect Ecology	3-4
GENE 301 GENE 302 GENE 310 GENE 320	Genetics Comprehensive Genetics Principles of Genetics Principles of Heredity Biomedical Genetics	3-4
	12 hours must be upper level	
Total		24

Course equivalencies will be determined on a case-by-case basis