

Name: _____ ID: _____ Date: _____

COURSE REQUIREMENT CHECKLIST

The minor in middle school science consists of a **minimum of 23 credits, 15 of which must be classes that are beyond those required for General Education. At least nine (9) credits must be taken at SU.** All classes must be passed with a **grade of "C" or better.** Required classes include a 100-level class in each of Biology, Physical Geography, and either Chemistry or Physics, and a laboratory safety class. At least two of the core science classes must have labs.

In addition, students must take three additional classes from at least two of the following content area prefixes; BIOL, ENVH, ENVR, GEOG/GEOL*, PHYS. At least six (6) credits must be at the 200-level or above**. Additionally, students must take EDUC 470: Practicum in Middle School Science.

1. Complete four core classes (or approved equivalents**) in three science areas (two of these may count as General Education credit) and lab safety: (12-13 cr.)

Title	Dept. Prefix	Class No.	_____ term	_____ grade
_____ Fundamentals of Biology	BIOL	101_____	_____ term	_____ grade
_____ Physical Science	CHEM/PHYS	101_____	_____ term	_____ grade
_____ Earth and Space Science	GEOG	104_____	_____ term	_____ grade
_____ Safety in the...Laboratory	BIOL/MDTC	115/101_____	_____ term	_____ grade

2. Select a minimum of three additional science classes from at least two science department prefixes (or approved equivalents**). At least 6 credits must be at the 200-level or above. (8-12 cr.) (See attached list of approved classes.)

Title	Dept. Prefix	Class No.	_____ term	_____ grade
_____	_____	_____	_____ term	_____ grade
_____	_____	_____	_____ term	_____ grade
_____	_____	_____	_____ term	_____ grade
_____	_____	_____	_____ term	_____ grade

3. Take EDUC 470: Practicum in Middle School Science Instruction (3 cr.)

Title	Dept. Prefix	Class No.	_____ term	_____ grade
_____ Practicum in MS Science Inst.	EDUC	470	_____ term	_____ grade

*GEOG classes must be in physical geography or geography methodology, not human geography. For the purposes of the minor, GEOG and GEOL will be considered one content area.

**Classes shown are the preferred classes/prefixes at SU, but transfer classes, one of which may be 3 credits, can be substituted with the approval of the minor coordinator. The general distribution of sciences must be maintained.

Minor Coordinator _____ Date _____
 Student Signature _____ Date _____

Approved Class List***Biology (BIOL)****

105 Biology and Society (3 cr.)
 205 Fundamentals of Human Anatomy and Physiology (4 cr.)
 210 Biology: Concepts & Methods (4 cr.)
 211 Microbiology (4 cr.)
 212 Introduction to Plant Biology (4 cr.)
 213 Zoology (4 cr.)
 214 Medical Physiology (4 cr.)
 215 Human Anatomy and Physiology I (4 cr.)
 216 Human Anatomy and Physiology II (4 cr.)
 217 Nutrition (3 cr.)
 219 Biology of Human Aging (3 cr.)
 220 Humans and the Environment (4 cr.)
 250 Economic Botany (3 cr.)
 260 Biological Drawing and Illustration (3 cr.)
 301 History and Literature of Biology (2 cr.)
 305 Mammalogy (4 cr.)
 312 Plant Taxonomy (3 cr.)
 313 Comparative Anatomy (4 cr.)
 316 General Entomology (3 cr.)
 320 Biology of Vertebrates (4 cr.)
 321 Invertebrate Zoology (4 cr.)
 322 Parasitology (3cr.)
 323 Medical Microbiology (4 cr.)
 324 Plant Morphology (3 cr.)
 325 Plant Anatomy (4 cr.)
 333 Immunology (4 cr.)
 360 Genetic Analysis (4 cr.)
 399 International Field Studies (3 cr.)

Chemistry (CHEM)**

107 Chemistry: A Humanistic Perspective (4 cr.)
 109 Energy and the Environment (4 cr.)
 210 Introduction to Chemical Research (1-3 cr.)
 220 Humans and the Environment (4 cr.)

Environmental Health Science (ENVH)**

110 Introduction to Environmental Science (3 cr.)
 210 Introduction to Environmental Health Science (3 cr.)

Environmental Issues (ENVR)

102: Earth Literacy (3 cr.)

Geography GEOG (Note: For the purposes of this minor, GEOG and GEOL count as a single prefix area)**

107 Weather and Human Affairs (3 cr.)
 141 Current Issues in Earth Science (3 cr.)
 201 Weather and Climate (4 cr.)
 204 Spatial Analysis (4 cr.)
 219 Map Interpretation and Analysis (3 cr.)
 311 Coastal Processes (3 cr.)
 312 Severe and Hazardous Weather (3 cr.)
 316 Biogeography (3 cr.)
 401 Soil, Water and Environment (3 cr.)
 410 Meteorology (3 cr.)
 411 Geomorphology (3 cr.)
 413 Applied Climatology (3 cr.)

Geology (GEOL) (Note: For the purposes of this minor, GEOG and GEOL count as a single prefix area)**

103 Introduction to Physical Geology (4 cr.)
 206 Historical Geology (4 cr.)
 405 Environmental Geology (3 cr.)

Physics (PHYS)**

100 Physics in the Modern World (4 cr.)
 108 Introduction to Astronomy (4 cr.)
 121 General Physics I (4 cr.)
 123 General Physics II (4 cr.)
 399 Intermediate Special Topics in Physics (1-3 cr.)

**Additional classes may be considered for the minor with the approval of the minor coordinator.*

***Students should check the SU catalog for prerequisites needed to take specific classes listed.*