MIDDLE SCHOOL SCIENCE EDUCATION MINOR

EARLY AND ELEMENTARY EDUCATION DEPARTMENT • SEIDEL SCHOOL

2020-2021

Rev. 12/19

NAME:_____ ID#:_____ DATE:_____

THIS CHECKLIST IS AN UNOFFICIAL TOOL FOR PLANNING.

Matriculated students and advisors should consult the Academic Requirements Report in GullNet before and after registering for classes each semester to track academic progress.

UNIVERSITY POLICIES

Salisbury University minors require:

- The completion of at least 18 credits with grades of C or better.
- At least 15 credits applied toward the minor must be coursework that is not used to satisfy General Education requirements.
- At least nine credits must be earned at SU.

Advisement for the minor is available from the Teacher Education Department.

MINOR REQUIREMENTS

- Required core science courses include two lab science courses from different prefix areas, an approved STEM elective or science course from a third prefix area, and a laboratory safety class.
- Take 3 additional courses from at least 2 disciplines, which may include science prefixes (i.e., BIOL, CHEM, ELED, ENVR, GEOG/GEOL, PHYS [GEOG courses must be in physical geography or geography methodology, not human geography. For the purposes of the minor, GEOG and GEOL will be considered one discipline.]) and/or appropriate education prefix (e.g., appropriate ISED or ELED prefix topics courses with approval from the minor coordinator).
- At least 6 credits of the electives must be at the 200 level or above.
- Courses/prefixes shown are the preferred core courses at SU, but transfer courses can be substituted on the approval of the minor coordinator.
- Complete all courses with grades of C or better.
- The minor consists of a **minimum of 23 credits**, 15 of which must be courses that are beyond those required for General Education.

Course No. & Title	#Credits	Grade	Taken @SU	Term Completed
CORE SCIENCE COURSES (4 courses)				
Complete two lab science courses from two science prefix areas (see Groups 1-3 on back)				
_____	4	____	Y/N	_____
_____	4	____	Y/N	_____
Complete an approved STEM elective or science course from a third prefix area (see Groups 1-5 on back)				
_____	3/4	____	Y/N	_____
Complete the following:				
BIOL115/MDTC101 - Safety in the Biological, Chemical and Clinical Laboratory	1	____	Y/N	_____
ADDITIONAL SCIENCE OR STEM ELECTIVE COURSES (3 courses) **Complete at least 3 additional courses (lab or non-lab) in at least 2 department prefixes or approved equivalents (see Groups 1-5 on back):**				
_____	3/4	____	Y/N	_____
_____	3/4	____	Y/N	_____
(200 level or above)				
_____	3/4	____	Y/N	_____
(200 level or above)				
ADDITIONAL REQUIREMENT (1 course)				
EDUC470 - Practicum in Middle School Science Education	3	____	Y/N	_____

Salisbury UNIVERSITY

(Approved elective class list on the back)

APPROVED ELECTIVE COURSE LIST

- Additional courses (such as ELED 390) 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 courses listed.

GROUP 1: BIOLOGY (BIOL)

205 Fundamentals of Human Anatomy and Physiology 4
210 Biology: Concepts and Methods 4
211 Microbiology 4
212 Introduction to Plant Biology 4
213 Zoology 4
214 Medical Physiology 4
215 Human Anatomy and Physiology I 4
216 Human Anatomy and Physiology II 4
313 Comparative Anatomy 4
320 Biology of Vertebrates 4
323 Medical Microbiology 4
325 Plant Anatomy 4
360 Genetic Analysis 4
421 Mammalogy 4

GROUP 2: CHEMISTRY (CHEM) & PHYSICS (PHYS)

Chemistry (CHEM)

107 Chemistry: A Humanistic Perspective 4
109 Energy and the Environment 4
220 Humans and the Environment 4

Physics (PHYS)

100 Physics in the Modern World 4
108 Introduction to Astronomy 4
121 General Physics I 4
123 General Physics II 4

GROUP 3: GEOGRAPHY (GEOG/GEOL)

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

Geography (GEOG)

201 Weather and Climate 4
204 Spatial Analysis 4

Geology (GEOL)

103 Introduction to Physical Geology 4
206 Historical Geology 4

GROUP 4: STEM ELECTIVES

BIOL105 Biology and Society 3
BIOL110 Introduction to Environmental Science 3
CHEM111 Big Ideas in Chemistry 3
ENGR100 Introduction to Engineering Design 3
ENVR102 Introduction to Sustainability 4
ENVR200 Environmental Studies in the Amazon 3
ENVR350 Topics in Natural Sciences 4
(prereq.: 2 lab sciences with different prefixes)
ENVR460 Topics in Chesapeake Bay Studies 3-4
(prereq.: sophomore standing)
GEOG107 Weather and Human Affairs 3
GEOG141 Current Issues in Earth Science 3
ISED208 Great Inventions 3
ISED390 Studies in Integrated STEM Education 1-4
(under appropriate subtitle)

GROUP 5: SCIENCE ELECTIVES

Biology (BIOL)

105 Biology and Society 3
110 Introduction to Environmental Science 3
217 Nutrition 3
250 Economic Botany 3
301 History and Literature of Biology 2
312 Plant Taxonomy 3
322 Parasitology 3
324 Plant Morphology 3
399 International Field Studies 3
413 Entomology 3

Chemistry (CHEM)

210 Introduction to Chemical Research 1-3
220 Humans and the Environment 4

Environmental Studies (ENVR)

102 Earth Literacy 3

Integrated STEM Education (ISED)

208 Great Inventions 3
390 Studies in Integrated STEM Education 1-4
(must be pre-approved by minor coordinator)

Geography (GEOG)*

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

Geology (GEOL)*

405 Environmental Geology 3

Physics

399 Intermediate Special Topics in Physics 1-3

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