Middle School Natural Sciences/Biology Education Program Course of Study

Required Education Courses	Clinical hours
EDUC 210 Observing the Schooling Process	15 hours
EDUC 215 Instructional Communication: Theory & Practice	N/A
HIST 239 or PHIL 220 or SOAN 244 History or Philosophy or Anthropology of Education	N/A
PSYC 110 Introduction to Psychology	N/A
PSYC 210 Developmental Psychology	N/A
EDUC 313 Reading in the Content Areas	N/A
EDUC 315 Middle School Fieldwork & Seminar	150 hours
EDUC 314 Inclusive Learning Environments	15 hours
EDUC 419 Adolescent Curriculum and Instructional Design	N/A
EDUC 420 Discipline Specific Methods of Teaching Adolescents	15 hours
EDUC 421 Student Teaching in Adolescent Classrooms	560 hours
Required Content Courses	
BIO 120 Organismal Biology	N/A
BIO 130 - 139 (choose 1) Core Biological Inquiry	N/A
BIO 220 Ecology and Evolution	N/A
BIO 221 Cellular and Molecular Biology	N/A
Cellular and Molecular Biology (320, 322, 324, 325, 342, 346, 352, 360,362)	N/A
Organismal Biology (320, 330, 340, 342, 344, 346, 360, 362, 384)	N/A
Ecology and Evolution (330, 344, 370, 375, 384, 389)	N/A
BIO 494 Senior Seminar or Senior Thesis	N/A
BIO 150 Reasoning and Statistical Inference in Biology or MATH 110 Calculus I or MATH 150 Probability & Statistics	N/A
CHEM 115 Chemistry I	N/A
CHEM 116 Chemistry II	N/A
PHYS 109 Astronomy and Cosmology	N/A
PHYS 110/120 Introductory Physics	N/A

Note: a grade of "C" or better is required in all content courses. A grade of B- or better is required for all EDUC courses.

Middle School Natural Sciences/Biology Education Major Course Sequence and Program Assessment Checkpoints **General Education And Required Content Courses** EDUC 210: **Observing the Schooling Process CHECKPOINT #1: Program Entry** HIST 239: **SOAN 244 PHIL 220 EDUC 215** History of Philosophy of or Anthropology of Instructional Communication Theory and Practice Education Education Education **PSYC 110:** Introduction to Psychology **PSYC 210: Developmental Psychology** EDUC 315: EDUC 313: Reading Middle School Fieldwork Methods in the Content Areas Practicum EDUC 419: Adolescent EDUC 420: Discipline Specific Methods of Teaching Curriculum and Instructional Design Adolescents **CHECKPOINT # 2: Application for Student Teaching** EDUC 314: Inclusive EDUC 421: Student Teaching in **Learning Environments Adolescent Classrooms**

CHECKPOINT 4: Program Exit

CHECKPOINT 3: Completion of Student Teaching