TEACHER EDUCATION (Elementary/Middle Level (4-8th Grade): Option #1 Science)-B.S.Ed.

General Education Requirements

I. Required Skills and Competencies 15 cr
   ___ ENG 106 Writing Intensive First Year Seminar OR
   ___ ENG 110 Advanced Placement Writing (3 cr)
   ___ HCS 100 Intro to Human Communication (3 cr)
   ___ MAT 111 Fundamentals of Mathematics II (3 cr)
   ___ HIS 105 Historical Foundations of Global Cultures (3 cr) AND
   ___ HIS 106 Thinking Historically in a Global Age (3 cr)

II. Categories of Knowledge 33-34 cr
   A: Language/Numbers for Rational Thinking (3 cr)
      ___ MAT 110 Fundamentals of Mathematics I (3 cr)
   B: Literary, Artistic & Cultural Traditions (9 cr)
      ___ Select ONE Literature course:
         ENG 243 or 250 or ENG 248
      ___ Select TWO courses from different disciplines with advisement
         ___ ART 101 Art Appreciation (recommended) OR
         ___ ART 231 Art History I OR
         ___ ART 232 Art History II OR
         ___ ART 274 Intro to Cultural Studio OR
         ___ ART 339 History of American Art
         ___ MUS 110 Fundamentals of Music OR
      ___ MUS 121 Introduction to Music OR
      ___ MUS 261 World Music
      ___ THE 121 Introduction to Theater
   C: Biological & Physical Sciences (10 cr)
      ___ BIO 161: Principles of Biology: Cell Structure & Function (4 cr)
      ___ CHM 105 An Observational Approach (3 cr)
      ___ ESS 110 Introduction to Geology (3 cr)
   D: Political, Economic & Geographic Sciences (6 cr)
      ___ GEO 101 World Geography
      ___ ECO 101 Principles of Macroeconomics OR
      ___ PLS 100 U.S. Government and Politics
   E: Social & Behavioral Science (6 cr)
      ___ PSY 101 General Psychology AND
      ___ SOC 101 Introduction to Sociology OR
      ___ GEO 140 Cultural Geography OR
      ___ ANT 111 Cultural Anthropology

III. Library Skills: Complete via College Writing Competency

Cognate Areas

Math 8 cr
   ___ MAT 105 Math for Liberal Studies (3 cr)
   ___ MAT 117 Applied Statistics (4)
   ___ MAT XXX Survey of Middle Grades Mathematics (3 cr)
   ___ MAT 175 Precalculus (3 cr)

Note on prerequisites

MAT 225: Students must meet one of the following prerequisites: MAT 140A, or
Level 4 math placement on the placement test.
MAT 211: Students must meet one of the following prerequisites: a grade
of “C” or higher in MAT 175, or Level 6 math placement on the placement test.
However, a prerequisite override could be granted based on a recommendation from
the math department.

Science 4 cr
   ___ Physics 121 Physics I (3 cr ) AND
   ___ Physics 123 Physics I Lab (1 cr )

Language Arts 6 cr
   ___ RDG 232 Reading in the Elementary School
   ___ RDG 340 Seminar in Literacy Tutoring

Other Major Course Requirements

Concentration Area: Science 31 cr
BIO 162: Principles of Biology: Organismal Diversity (4 cr)
BIO 208 Field Biology (3 cr) OR
BIO 242 Ecology (3 cr)
CHM 121 Chemical Bonding (3 cr) AND
CHM 125 Chemical Bonding Lab (1 cr) OR
PHY 122 Intro to Physics II (3 cr) AND
PHY 125 Intro to Physics II Lab (1 cr)
ESS 110 Intro to Geology (3 cr)
ESS 111 Intro to Atmosphere (3 cr)
ESS 210 Physical Geography (3 cr)
ESS 220 Oceanography (3 cr) OR
ESS 355 Meteorology (3 cr) OR
ESS 404 Applied Meteorology and Climatology (3 cr)
Professional Core & Student Teaching: 27 cr
A. Middle Level Cognitive Development
   TCH 206 Social Found of Middle Level Education (3 cr)
B. Early Adolescent and Adolescent Learning Theory
   TCH 261 Adolescent Dev and Language Theory (3 cr)
C. Assessments and Interventions
   THC 345 Assessment and Evaluations (3 cr)
   EEC 483 Assessing Children with Exceptionalities for Curricular Decision Making (3 cr)
D. Adaptations and Accommodations for Diverse Learners and English Language Learners
   EEC 273 Intro. to Exceptionalities: Understanding Diverse Learners (3 cr)
   EEC 423 Effective Instructional Strategies for Students with Exceptionalities (3 cr)
   EEC 447 Instructional Content and Practices for Special Education (3 cr)
E. Middle Level Teaching Methods
   TCH 366 Teaching Science at the Middle Level (3 cr)
   TCH 251 Elements of Middle Level Instruction
F. English Language Learners (ELL)
   RDG 413 Teaching Reading to English (3 cr)
Student Teaching
   EDU 495 Student Teaching Experience 12 cr
Total Graduation Requirements a minimum of 120 cr

GPA Needed to Declare: 3.0
Students are considered for admission to Teacher Education during the first two weeks of each semester. Students are ranked by several factors including educational philosophy, current GPA, interview, a writing sample, and grades in certain classes. An application requesting admission to the department is the first step in the application procedure. See “Admission to Teacher Education” for details. Students electing certain minors can be required to complete more credits to complete both the elementary program and the requirements of the select minor. All students are required to complete at least 120 credit hours for graduation. The final responsibility for scheduling and fulfilling program requirements belongs to the student. Majors failing to maintain department required QPA of 3.0 will not be permitted to schedule elementary courses until they have reached the required QPA.

Students who plan to major in Teacher Education should maintain close contact with the department to ensure that they meet program requirements. Students selecting this option will only be certified to teach science at the middle level grades 4-8.

A 4-year template is available at www.ship.edu/undeclared