TEACHER EDUCATION (Elementary/Middle Level (4-8th Grade): Option #2 Math and 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:
___ 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 Skills OR
___ MUS 121 Introduction to Music OR
___ MUS 261 World Music
___ THE 121 Introduction to Theater

C: Biological & Physical Sciences (9 -10 cr)
___ BIO 100 Basic Biology (3 cr) OR
___ CHM 105 An Observational Approach (3 cr)
___ ESS 110 Introduction to Geology (3 cr)
___ BIO 162 Principles of Biology: Organismal Diversity (4 cr)

D: Political, Economic & Geographic Sciences (6 cr)
___ GEO 101 World Geography
___ ECO 101 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
Science 4 cr
___ PHY 121 Physics I (3 cr)
___ PHY 123 Physics I Lab (1 cr)
Language Arts 6 cr
___ RDG 232 Reading in the Elementary School (3 cr)
___ RDG 340 Seminar in Literacy Tutoring (3 cr)

Other Major Course Requirements
Concentration Area 1: Science 12 cr
___ BIO 142 Introduction to Ecology (3 cr) OR
___ BIO 145 Environmental Biology (3 cr)
___ ESS 111 Intro to the Atmosphere (3 cr)
___ PHY 108 Astronomy (3 cr)
Concentration Area 2: Math 15 cr
___ MAT 105 Math for Liberal Studies (3 cr)
___ MAT XXX Survey of Middle Grades Mathematics (3 cr)
___ MAT 117 Applied Statistics (4)
___ MAT 211 Calculus I (4 cr)
___ MAT 225 Discrete Mathematics (4 cr)
___ MAT 333 Geometry (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.

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
   ___ 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 Introduction to Exceptionalities: Understanding Diverse Learners (3 cr)
   ___ EEC 423 Effective Instructional Strategies for Students w/ Exceptionalities (3 cr)
   ___ TCH 345 Assessment and Evaluation

E. Middle Level Teaching Methods
   ___ TCH 342 Teaching Middle Level Mathematics (3 cr)
   ___ TCH 366 Teaching Middle Level Science (3 cr)

F. English Language Learners (ELL)
   ___ RDG 413 Teaching Reading to English Language Learners (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 and math at the middle level grades 4-8.

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