I. General Education Requirements

SPECIAL NOTE: Middle Grades Education majors should refer to page 3 of this Program of Study for important information for recommended General Education courses that can be taken and count in the major. Courses identified for Middle Grades Education majors on page 3 also meet the requirements for General Education. Students should contact their advisor or the Middle Grades Coordinator (identified above) for questions relating to General Education recommendations and requirements.

II. Professional Education Requirements

All courses must be completed with “C” (2.0) or better.

C I 2300 Teaching and Learning in the Digital Age (2) Entry course to teacher education. Required prior to admission to teacher education.
FDN 2400 Critical Perspectives on Teaching and Learning (2) Required prior to admission to teacher education. Prerequisite or Co-requisite: CI 2300.
PSY 3010 Psychology Applied to Teaching (3) May be taken prior to or after admission to teacher education. Prerequisite or Co-requisite: CI 2300.
SPE 3300 Creating Inclusive Learning Communities (3) Admission to teacher education required. Prerequisites: CI 2300, FDN 2400, PSY 3010.
CI 3400 Policies and Practices in Educational Assessment (2) Admission to teacher education required. Prerequisites: CI 2300, FDN 2400, PSY 3010.
CI 4900 Student Teaching (12) (Graded on S/U basis) All courses in professional education core must be completed with grades of C (2.0) or better prior to student teaching, along with other courses (including methods and reading) identified within the major to be completed prior to student teaching and/or requiring C (2.0) or better.

Praxis Exams:

PRAXIS I Pre-Professional Skills Tests: *CBT Reading ______  *CBT Writing______  *PPST/CBT Mathematics ______
PRAXIS II: Subject Tests: Middle school Mathematics _______ OR Middle School Science ________

III. Major Requirements

A. Middle Grades Academic Concentrations: Mathematics, Science
(See listing of required courses on page 2 of this POS and meet with advisor.)

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<th>MATHEMATICS CONCENTRATION</th>
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B. The following courses must be taken using the cohort model. Please note that all cohort internships and student teaching can be done only in schools that have been identified by ASU as professional development schools. (See following page for additional information)

Block I (Second Semester Junior year. Please note that this block is offered only during the SPRING SEMESTER.)

**#+ CI 3900 Middle Grades Internship (3) (WID)
**#+ CI 3910 Middle Level Education (3)
**#+ CI 3920 Teaching Young Adolescents (3)
Courses from academic concentrations

Block II (First Semester Senior Year. Please note that this block is offered only in the FALL TERM.)

**#+ CI 4490 Middle Grades Curriculum, Instruction, and Assessment (4)
**#+ RE 4630 Reading in the Content Area (2)
**#+ CI/RE 4300 Literacy, Language, and Culture in the Middle Grades (3)
**#+ CI 4040 Mathematics in the Middle Grades (3)
**#+ GS 4403 Teaching Science in the Middle and High Schools (3)

#Cannot be taken before being admitted to Teacher Education
*Should be taken before junior year (Pre-requisite to enter Teacher Education)
+Must have “C” (2.0) or higher for COE
**Must be taken before student teaching

C. CI 4450 Portfolio/Exhibition (1) is to be taken during the student teaching semester.

IV. Second Academic Concentration

Second academic concentration requirements are met upon successful completion of middle grades content concentrations.

V. Electives

TOTAL

128 SH
MATHEMATICS CONCENTRATION (24 SH)

MAT 1110 Calculus with Analytic Geometry I (4) (Gen Ed: Quantitative Literacy) (Prerequisite: MAT 1025, with a grade of “C-” or higher, or equivalent)
MAT 3910 Introduction to the Logic and Structure of Mathematics I (4) (Prerequisite: junior or senior standing or permission of the instructor)
MAT 3920 Introduction to the Logic and Structure of Mathematics II (4) (Prerequisite: MAT 3910 or permission of instructor)
CI 4040 Mathematics in the Middle Grades (3) (Block Two, Fall only) (Prerequisite: senior standing in mathematics or permission of the instructor)

Select at least one of the following courses:
STT 2810 Introduction to Data Analysis and Statistical Inference (3) (Prerequisite: MAT 1010 or equivalent)
MAT 4930 Basic Concepts of Probability and Statistics (3)

Select at least one of the following courses:
MAT 3610 Introduction to Geometry (3) (Prerequisites: MAT 1120 and MAT 2110)
MAT 4910 Informal Geometry (3) (Prerequisite: MAT 3910 or MAT 3920 or permission of the instructor)

Additional courses may be selected from the following list. Courses not listed may be taken with permission from your advisor.
MAT 1120 Calculus with Analytic Geometry II (4) (Prerequisite: MAT 1110 (with a grade of “C-” or higher)
MAT 2240 Introduction to Linear Algebra (3) (Prerequisite: MAT 1120 or permission of the instructor)
MAT 3010 History of Mathematics (2)
MAT 3110 Introduction to Modern Algebra (3) (Prerequisites: MAT 2110 and MAT 2240 or permission of instructor and ENG 2001 or its equivalent)
MAT 3520 Instructional Assistance (1)

SCIENCE CONCENTRATION (26 SH)

The Science Inquiry Perspective requires 8 semester hours from one theme (underlined). Courses in themes marked with an * must be taken sequentially. Check the course descriptions for any pre and corequisites.

Eight semester hours (8 SH) from one of the General Education Science Inquiry themes listed below:

**Biology in Society:** BIO ___1201, ___1202, AND ___1203
OR (for transfers with credit) BIO ___1201/1204 AND ___1202/1205

**The Blue Planet:** GLY ___1104 AND ___1105

*Chemistry Connections to Our Changing World:** CHE ___1101/1110 AND ___1102/1120

*How Things Work:** PHY ___1101 AND ___1102

*The Physics of Our Technological World:** PHY ___1103 AND ___1104

**Physics of Self Expression:** PHY ___1101, ___1810, ___1812, ___1814

*Physics with Calculus:** PHY ___1150 AND ___1151

**Restless Planet: Earth, Environment and Evolution:** GLY ___1101, ___1102, ___1103

Required: One four hour (4 SH) science course from each of the remaining three sciences for a total of 12 sh:

Biology Chemistry Geology Physics

GS 3300 Educational Applications of Science Concepts (3) (Prerequisites: MAT 1010 or higher and at least sophomore standing.)
GS 4403 Teaching Science in the Middle and High Schools (3) (Block Two, Fall only)