

**Middle Grades Education
Mathematics and Science Concentrations**

<http://generaleducation.appstate.edu>

NAME _____

FIRST YEAR SEMINAR (3 s.h. required)

____ UCO 1200 or HON 1515 or WGC 1103

WRITING ACROSS THE CURRICULUM (6 s.h. required)

____ English 1000 or FL 1000 or WGC 1103

____ English 2001 or WGC 2202 or WGC 2205

MAJOR REQUIREMENTS

____ Junior writing in the discipline *

____ Senior capstone experience *

(*These hours count in the major requirements, not in the 44 hours of General Education requirements.)

DESIGNATIONS

____ Fine Arts, ____ Historical Studies, ____ Literary Studies

QUANTITATIVE LITERACY (4 s.h. required)

____ MAT 1010 ____ MAT 1030 ____ STT 1810 **

____ MAT 1020 ____ MAT 1110 ____ STT 2810 **

____ MAT 1025 ____ STT 2820 ____ STT 3820 **

(** These STT courses are 3 s.h. courses and do NOT fulfill the Quantitative Literacy requirement on their own. All of the MAT courses listed above, as well as STT 2820, are 4 s.h. courses and therefore will fulfill the Quantitative Literacy requirement.)

WELLNESS LITERACY (2 s.h. required) - Choose from the following:

1 s.h. COURSES: PE 1700-1877 (1) _____ (2) _____

2 s.h COURSES: ____ HP 1105, ____ HED 1000, ____ DAN 1400, ____ DAN 1410

____ DAN 1420, ____ DAN 2400, ____ DAN 2410, ____ DAN 2420,

____ DAN 3280, ____ DAN 3480, ____ DAN 3580

3 s.h. COURSES (additional hour counts as elective): ____ FCS 2202, ____ PE 3008, ____ DAN 4460

Note: MAT 1110 Calculus with Analytic Geometry will also count toward the middle grades mathematics concentration.

PERSPECTIVES: Choose one theme from each perspective. You must choose an 8 hour theme from the science perspective, two 6 hour themes and one 9 hour theme from each of the remaining perspectives (29 s.h. required). *Italicized courses appear in multiple themes; however, courses may not be applied to more than one theme.* Students must select one course with a fine arts (FA) designation, one course with a historical studies (HS) designation, and one course with a literary studies (LS) designation.

SCIENCE INQUIRY PERSPECTIVE (8 s.h. from one theme) *Must be taken sequentially. Be sure to check all courses for pre- and co-requisites.

Biology and Society: ____ BIO 1101, ____ *BIO 1102*

* Chemistry Connections to Our Changing World: ____ CHE 1101/ CHE 1110____, ____ CHE 1102/ CHE 1120____

Contemporary Science: ____ GSP 1010, ____ GSC 1020, ____ GSG 1030, ____ GSB 1040

Restless Planet: Earth, Environment and Evolution: ____ GLY 1101, ____ *GLY 1102*

* The Physics of Our Technological World: ____ PHY 1103, ____ PHY 1104

Note: Please see the science options listed on the attached checksheet before you select one of these themes and register for a science course.

AESTHETIC PERSPECTIVE (6-9 s.h. from one theme; students must take courses from at least two disciplines in the chosen theme)

Analyzing Style and Form: ____ DAN 2010 (FA), ____ MUS 2011 (FA), ____ *PHL 2013*, ____ THR 2010 (FA)

Cultivating Creative Expression: ____ ART 2022 (FA), ____ MUS 2022 (FA), ____ THR 2022 (FA)

Expressions of Belief: ____ ANT 2300, ____ COM 3533, ____ *REL 2020* (LS)

How We Tell Stories: ____ *ENG 2170*, ____ FL 2025 (LS), ____ PHL 1502, ____ *REL 2020* (LS), ____ THR 2005 (FA), ____ THR 2610 (FA)

Social Change Through the Arts: ____ ART 3534 (FA)/*SOC 1100*____, or ____ THR 2017/*SOC 1100*____ (linked classes)

The Body: Expression, Presentation and Representation: ____ DAN 3430, ____ IDS 2210, ____ THR 3640 (FA)

Traditions and Innovations: ____ *ART 2130* (FA), ____ ENG 2050 (LS), ____ HIS 1110 (HS), ____ *PHL 2013*

HISTORICAL AND SOCIAL PERSPECTIVE (6-9 s.h.)

This American Life: ____ HIS 1200 (HS), ____ PS 1100, and one of the following if you plan to take 9 hours in this perspective: ____ ECO 2030, ____ ENG 2350 (LS), ____ PS 3722

LOCAL TO GLOBAL PERSPECTIVE (6-9 s.h. from one theme; students must take courses from at least two disciplines in the chosen theme)

Empire, Colonialism, and Globalization: ____ *ANT 1415*, ____ *ART 2130* (FA), ____ *ENG 2040* (LS), ____ *GLS 2000*, ____ HIS 1400 (HS)

Global Resources: ____ ECO 3620, ____ FCS 2351, ____ *GHY 1020*, ____ TEC 3601

Identity, Culture and Media: ____ PHL 1503, ____ *ENG 2170*, ____ COM 3531, ____ ART 2011 (FA)

Origins and Migrations: ____ HIS 1600 (HS), ____ *GLS 2000*, ____ FCS 2103, ____ ENG 2030 (LS)

Performance of Culture: ____ COM 3535, ____ DAN 2020, ____ *FL 1050* (CHN/FRE/GER/JPN/RSN/SNH), ____ MUS 2018 (FA), ____ THR 2020

Regions in Global Context: ____ *ENG 2040* (LS), ____ *FL 1050* (CHN/FRE/GER/JPN/RSN/SNH), ____ *GHY 1020*, ____ HIS 1130 (HS)

Sustainability and Global Change: ____ FCS 2110, ____ PHL 2015, ____ PHY 1830, ____ SD 2400, ____ TEC 2029

I. General Education Requirements 44 S.H.

II. Professional Education Requirements 24 S.H.

*+\$\$\$CI/SPE 2800 ___(3) #+**CI/FDN/RE 3850 ___(3)
+**PSY 3000 ___(3) #+**FDN 3800 ___(3)
CI 4900 ___(12) (CAP) #+ CI 4450 ___(1)

Proficiencies:

*Reading ___
* English ___
* Speech ___

NTE Exam

PRAXIS I: Academic Skill Assessments.
*PPST/CBT Reading ___
*PPST/CBT Writing ___
*PPST/CBT Mathematics ___
PRAXIS II:
Subject/Assessment Exam(s) ___

III. Major Requirements: 50-57 S. H.

A. Middle Grades Academic Concentrations: Select **two**: Language Arts, Mathematics, Science, Social Science. See attached listing of courses and meet with advisor.

CONCENTRATION 1		CONCENTRATION 2	
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

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 term.)

** #+ 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)

Select two, depending on concentrations:

** #+CI 3060 Social Studies in the Middle Grades (3)
** #+CI 4040 Mathematics in the Middle Grades (3)
** #+RE 3150 Language Arts 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
\$Must have "B" (3.0) or higher for Middle Grades

C. Second Academic Concentration (Second academic concentration requirements are met upon successful completion of middle grades content concentrations).

IV. Electives 3-10 S. H.

TOTAL 128 S. H.

COHORT PLANNING INFORMATION

Courses in the blocks cannot be taken before being accepted into the Reich College of Education and all courses in blocks must be successfully passed with a grade of at least a "C" before student teaching.

Block One (Offered in spring term only)

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

Block Two (Offered in fall term only)

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)

Select two, depending on concentrations:

CI 3060 Social Studies in the Middle Grades (3)
CI 4040 Mathematics in the Middle Grades (3)
RE 3150 Language Arts in the Middle Grades (3)
GS 4403 Teaching Science in the Middle and High Schools (3)

Block Three (Spring semester of senior year)

CI 4450 Portfolio/Exhibition (1)
CI 4900 Student Teaching (12) (CAP)

GOALS AND OBJECTIVES MIDDLE GRADES EDUCATION (6-9) Bachelor of Science

Middle Grades Majors:

- -Are knowledgeable about young adolescents and aware of the educational implications of that knowledge.
- -Are knowledgeable in two subject areas.
- -Have specialized skills and knowledge regarding appropriate teaching strategies for middle grades students.
- -Have a clear, working knowledge of the concept of developmentally responsive models of middle level schooling.

Mathematics and Science Concentrations

Science Concentration (24)

Select one option. Your science plan should be approved by your advisor.

Option 1: Biology and Society

Take BIO 1101 and 1102 (8), PLUS at least one four hour science class from each of the remaining three sciences (Chemistry, Geology, and Physics- as listed on this page under Options 2, 4, and 5), and meet other science concentration requirements — a total of 24 hours including GS 4403 Teaching Science in the Middle and High Schools(3)(Block Two, Fall only) and elective science courses as approved by your advisor.

Option 2: Chemistry Connections to Our Changing World

Take CHE 1101/1110 and 1102/1120 (8), PLUS at least one four hour science class from each of the remaining three sciences (Biology, Geology, and Physics- as listed on this page under Options 1, 4, and 5), and meet other science concentration requirements — a total of 24 hours including GS 4403 Teaching Science in the Middle and High Schools (3)(Block Two, Fall only) and elective science courses as approved by your advisor.

Option 3: Contemporary Science

Take GSP 1010 Contemporary Physics (2), GSC 1020 Contemporary Chemistry (2), GSG 1030 Contemporary Geology (2), and GSB 1040 Contemporary Biology (2). Take additional science courses to meet other science requirements as approved by your advisor — a total of 24 hours including GS 4403 (3) (Block Two, Fall only).

Option 4: Restless Planet: Life, Earth, and Evolution

Take GLY 1101 Introduction to Physical Geology and GLY 1102 Introduction to Historical Geology (8), PLUS at least one four hour science class from each of the remaining three sciences (Biology, Chemistry, and Physics- as listed on this page under Options 1, 2, and 5), and meet other science concentration requirements — a total of 24 hours including GS 4403 Teaching Science in the Middle and High Schools (3) (Block Two, Fall only) and elective science courses as approved by your advisor.

Option 5: The Physics of Our Technological World

Take PHY 1103 General Physics I and PHY 1104 General Physics II (8), PLUS at least one four hour science class from each of the remaining three sciences (Biology, Chemistry, and Geology- as listed on this page under Options 1, 2, and 4), and meet other science concentration requirements — a total of 24 hours including GS 4403 Teaching Science in the Middle and High Schools (3) (Block Two, Fall only) and elective science courses as approved by your advisor.

Mathematics Concentration (24)

MAT 1110 Calculus with Analytic Geometry, (4) Quantitative Literacy
MAT 3910 Introduction to the Logic and Structure of Mathematics I (4)
MAT 3920 Introduction to the Logic and Structure of Mathematics II (4)
CI 4040 Mathematics in the Middle Grades (3) (Block Two, Fall only)

Select at least one of the following courses:

STT 2810 Introduction to Data Analysis and Statistical Inference (3)
MAT 4930 Basic Concepts of Probability and Statistics (3)

Select at least one of the following courses:

MAT 3610 Introduction to Geometry (MAT 1120 prerequisite) (3)
MAT 4910 Informal Geometry (3)

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)
MAT 2240 Introduction to Linear Algebra (3)
MAT 3010 History of Mathematics (2)
MAT 3110 Introduction to Modern Algebra (3)
MAT 3520 Instructional Assistance (1)