APPALACHIAN STATE UNIVERSITY GENERAL EDUCATION 2009-2010

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

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). *italized 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 2205 (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

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 1700-1787 *(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

*italized 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.
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:

   NTE Exam
   *Reading _____
   *English _____
   *Speech _____

   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.

<table>
<thead>
<tr>
<th>Block One (Offered in spring term only)</th>
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<tbody>
<tr>
<td>CI 3900  Middle Grades Internship (3) (WID)</td>
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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) |

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<th>Block Three (Spring semester of senior year)</th>
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<tr>
<td>CI 4450  Portfolio/Exhibition (1)</td>
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<tr>
<td>CI 4900  Student Teaching (12) (CAP)</td>
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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)