

**Purdue University North Central
Education Department
SECONDARY EDUCATION - MATH PROGRAM PLANNING SHEET (EFFECTIVE SPRING 2012)**

NAME

| FRESHMAN YEAR - 1st Semester (14 Credits Required) | | | |
|--|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| Fundamentals of Speech Communication | COM 11400 | 3 | |
| Freshman Year Experience | GS 19100 | 3 | |
| English Composition I | ENGL 10100 | 3 | |
| Plane Analytical Geometry & Calculus I | MA 16700 | 5 | |

| FRESHMAN YEAR - 2nd Semester (12-15 Credits Required) | | | |
|---|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| English Composition II | ENGL 10200 | 3 | |
| Plane Analytical Geometry and Calculus II | MA 16900 | 5 | |
| Science Elective | Elective | 3-5 | |
| Introduction to Teaching Seminar | EDCI 10500 | 1 | |

| SOPHOMORE YEAR - 1st Semester (16-18 Credits Required) | | | |
|--|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| Science Elective | Elective | 3-5 | |
| Humanities/Social Science Elective | Elective | 3 | |
| Exploring Teaching as a Career | EDCI 20500 | 3 | |
| Introduction to Abstract Mathematics | MA 31500 | 3 | |
| Multivariable Calculus | MA 26100 | 4 | |

| SOPHOMORE YEAR - 2nd Semester (16 Credits Required) | | | |
|---|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| Humanities/Social Science Elective | Elective | 3 | |
| Multiculturalism in Secondary Classrooms | EDCI 28600 | 3 | |
| Integrating Technology in the Classroom | EDCI 27200 | 3 | |
| Linear Algebra & Differential Equations | MA 26200 | 4 | |
| Computer Algebra and Programming | CS 20600 | 3 | |

HUMANITIES / SOCIAL SCIENCE ELECTIVES (12 credit hours): *

* Selected in consultation with your academic advisor

ID#

| JUNIOR YEAR - 1st Semester (15 Credits Required) | | | |
|--|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| Humanities / Social Science Elective | Elective | 3 | |
| Adolescent and Young Adult Development | EDPS 30600 | 3 | |
| Classroom Climate - Secondary | EDPS 30700 | 3 | |
| Discrete Mathematics | MA 34800 | 3 | |
| Concepts in Geometry | MA 33000 | 3 | |

| JUNIOR YEAR - 2nd Semester (15-17 Credits Required) | | | |
|---|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| Science Elective | Elective | 3-5 | |
| Exceptional Learners - Secondary | EDPS 30800 | 3 | |
| English Language Learners | EDCI 32200 | 3 | |
| Elementary Linear Algebra | MA 35100 | 3 | |
| Introductory Probability | STAT 31100 | 3 | |

| SENIOR YEAR - 1st Semester (18-19 Credits Required) | | | |
|---|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| Science Elective | Elective | 3-4 | |
| Strategies for Teaching Mathematics | EDIC 42500 | 3 | |
| Humanities / Social Science Elective | Elective | 3 | |
| Problem Solving in Mathematics | MA 40100 | 3 | |
| Elements of Algebra | MA 45300 | 3 | |
| Reading in Middle and Secondary Schools | EDCI 30900 | 3 | |

| SENIOR YEAR - 2nd Semester (12 Credits Required) | | | |
|--|------------|------|-------|
| Course Title | Course # | Crs. | Grade |
| Student Teaching the Secondary School | EDCI 49500 | 12 | |

118 - 126 TOTAL CREDIT HOURS

SCIENCE ELECTIVES:

Must take one of the following science sequences:

CHM 11500 - General Chemistry I and CHM 11600 General Chemistry II

OR

BIOL 11000 - Fundamentals of Biology I and BIOL 11100 - Fundamentals of Biology

OR

PHYS 22000 - General Physics I and PHYS 22100 - General Physics II

OR

PHYS 15200 - Mechanics and PHYS 25100 or 26100 - Heat, Electricity, and Optics

In addition, choose two (2) additional courses (either from those already listed above or the following):

ASTR 26300 - Descriptive Astronomy-Solar System

ASTR 26400 - Descriptive Astronomy-Stars and Galaxies

EAS 11300 - Introduction to Environmental Science

EAS 12000 - Introduction to Geography

STAT 35000 - Introduction to Statistics

PHYS 34200/34200L - Modern Physics and Modern Physics Lab

Praxis I: M- R- W-
Praxis I: M- R- W-
Praxis II: _____

Purdue University is currently in the process of aligning Teacher Education programs to those set by the Department of Education. Program and/or testing requirements are subject to change.