## MATHEMATICS EDUCATION

## Grade Level 5-12

REPA 3
Purdue University Course Catalog 2022-2023

## CONTENT

## Major Courses

MA 35100
MA 36600 Ordinary Differential Equations
MA 37500 Introduction to Discrete Mathematics
MA 46000 Geometry

## CREDIT HOURS

STAT 31100 Introductory Probability ..... 3
STAT 35000 Introduction to Statistics ${ }^{1}$ ..... 3
One of the following: ..... 3MA 30100 An Introduction to Proof Through Real Analysis (3)MA 34100 Foundations of Analysis (3)
One of the following:3MA 45000 Algebra (Honors) (3)MA 45300 Elements of Algebra I (3)
One of the following: ..... 3-4CS 15900 Programming Applications for Engineers (3)CS 17700 Programming with Multimedia Objects (4)CS 18000 Problem Solving and Object-Oriented Programming (4)
One of the following (Calculus I Selective): ..... 4-5MA 16100 Plane Analytic Geometry and Calculus I (5)MA 16500 Analytic Geometry and Calculus I (4)
One of the following (Calculus II Selective): ..... 4-5
MA 16200 Plane Analytic Geometry and Calculus II (5)
MA 16600 Analytic Geometry and Calculus II (4)
One of the following: (Calculus III Selective) ..... 4-5
MA 26100 Multivariate Calculus (4)
MA 27101 Honors Multivariate Calculus (5)
Total Content 43-47

${ }^{1}$ The higher grade between STAT 35000 or MA 48400 is used toward content GPA.

## PROFESSIONAL EDUCATION

Professional Education Course Requirements

| EDCI 20500 | Exploring Teaching as a Career *required for TEP <br> admission | 2 |
| :--- | :--- | :--- |

EDCI 22550 Mathematics Education Seminar 1

EDCI 27000 Introduction to Education Technology and Computing 1


## Licensure Information

All Purdue University Program and Indiana Department of Education requirements must be met for recommendation for Indiana licensure.

After all requirements are met, Purdue graduates will be considered eligible to apply to the Indiana Department of Education for licensure under REPA 3 in:

## Mathematics (5-12)

## Addition in Blended and Online Teaching (5-12)

Optional: Addition in High Ability (P-12) or ELL (P-12) if chosen pathway requirements are completed
Visit the Indiana Department of Education website for more information about what courses can be taught once licensed in this area.

Please reference the 2022-2023 Mathematics Education Guidelines and Requirements and the 2022-2023 Mathematics Education Checklist for more information.

