Mathematics Education License: Mathematics

Grade Level 5-12 REPA 3

Purdue University Course Catalog 2023-2024

| CONTENT | | | Credit Hours 43-47 | | | |
|--------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------|-----------------------|--|--|--|
| CONTENT | for Marth | anatics as were within the Departmental/Durangua maring mount he at least | 43-47 | | | |
| Overall GPA for Mathematics courses within the Departmental/Program major must be at least | | | | | | |
| 2.50/4.00 | 25100 | Flows out on Alica by | 2 | | | |
| MA | 35100 | Elementary Linear Algebra | 3 | | | |
| MA | 36600 | Ordinary Differential Equations | 4 | | | |
| MA | 37500 | Introduction to Discrete Mathematics | 3 | | | |
| MA | 46000 | Geometry | 3 | | | |
| MA | 48400 | Seminar on Teaching College Algebra and Trigonometry ¹ | 3 | | | |
| STAT | 31100 | Introductory Probability | 3 | | | |
| STAT | 35000 | Introduction to Statistics ¹ | 3 | | | |
| Select one | | | | | | |
| MA | 30100 | An Introduction to Proof Through Real Analysis OR | 3 | | | |
| MA | 34100 | Foundations of Analysis | 3 | | | |
| Select one | | | | | | |
| MA | 45000 | Algebra (Honors) OR | 3 | | | |
| MA | 45300 | Elements of Algebra I | 3 | | | |
| Select one | | | | | | |
| CS | 15900 | Programming Applications for Engineers OR | 3 | | | |
| CS | 17600 | Data Engineering in Python OR | 3 | | | |
| CS | 17700 | Programming with Multimedia Objects OR | 4 | | | |
| CS | 18000 | Problem Solving and Object-Oriented Programming | 4 | | | |
| Select one | | | | | | |
| MA | 16100 | Plane Analytic Geometry and Calculus I OR | 5 | | | |
| MA | 16500 | Analytic Geometry and Calculus I | 4 | | | |
| Select one | | | | | | |
| MA | 16200 | Plane Analytic Geometry and Calculus II OR | 5 | | | |
| MA | 16600 | Analytic Geometry and Calculus II | 4 | | | |
| Select one | | | | | | |
| MA | 26100 | Multivariate Calculus OR | 4 | | | |
| MA | 27101 | Honors Multivariate Calculus | 5 | | | |

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

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PROFESSIONAL EDUCATION 44

All Professional Education courses, including University Concentrations courses, are calculated into the Professional Education GPA. Professional Education GPA must be 3.00/4.00 with no grade lower than a C.

| | Required for TEP Admission | | | | | | | | | |
|--------------|----------------------------|--------------|------------------------------------------------------------------------------------|-------|-----|--|--|--|--|--|
| | EDCI | 20500 | Exploring Teaching as a Career | | 2 | | | | | |
| | EDCI | 28500 | Multiculturalism and Education | | 2 | | | | | |
| | EDST | 20010 | Educational Policies and Laws | | 1 | | | | | |
| | LD31 | 20010 | Educational Folicies and Laws | | | | | | | |
| Core Courses | | | | | | | | | | |
| | EDCI | 27000 | Introduction to Education Technology and Computing | | 1 | | | | | |
| | EDCI | 22550 | Mathematics Education Seminar | | 1 | | | | | |
| | EDCI | 30900 | Reading in Middle and Secondary Schools: Methods and Problems | | 1 | | | | | |
| | EDCI | 35000 | Community Issues and Applications for Educators | | 1 | | | | | |
| | EDCI | 37001 | Teaching and Learning English as a New Language | | 2 | | | | | |
| | EDPS | 23500 | Learning and Motivation | | 2 | | | | | |
| | EDPS | 24000 | Children with Gifts, Creativity, and Talents | | 1 | | | | | |
| | EDPS | 24800 | Differentiating Curriculum and Instruction | | 1 | | | | | |
| | EDPS | 26501 | The Inclusive Classroom | | 2 | | | | | |
| | EDPS | 32700 | Classroom Assessment | | 1 | | | | | |
| | EDPS | 36201 | Positive Behavioral Supports | | 2 | | | | | |
| | EDPS | 43010 | Secondary Creating and Managing Learning Environments | | 1 | | | | | |
| | EDCI/ EDPS | 20001 | Special Pop Sem: Focus on Students with Disabilities and Differentiation OR | | 1 | | | | | |
| | | | Special Pop Sem: Focus on Students with Disabilities and Differentiation | | | | | | | |
| | EDCI/ EDPS | 20002 | Special Pop Sem: English Lang Learners and Students with Gifts OR Special | | 1 | | | | | |
| | · | | Pop Sem: English Lang Learners and Students with Gift | | | | | | | |
| | | | | | | | | | | |
| | Methods Cou | <u>irses</u> | | | | | | | | |
| | EDCI | 42500 | Teaching Of Secondary Mathematics - Methods I | | 3 | | | | | |
| | EDCI | 42600 | Teaching Of Secondary Mathematics - Methods II | | 3 | | | | | |
| | | | | | | | | | | |
| | Student Teac | | | | | | | | | |
| | | | n methods courses and other Milestone requirements for the major area | | | | | | | |
| | | | her education required prior to this course. | | | | | | | |
| | EDPS | 49800 | Supervised Teaching | | 12 | | | | | |
| | University Co | ncentratio | ons | | | | | | | |
| | ` <u>-</u> | | n the concentrations below that was not already taken as a required course. | | | | | | | |
| | | - | ike additional coursework to complete a full concentration if they choose, | | | | | | | |
| | but it is not required. | | | | | | | | | |
| | | , | | | | | | | | |
| | English Langu | ıage Learr | ners (Licensure Eligible) | 12-13 | | | | | | |
| | EDCI | 37001 | Teaching and Learning English as a New Language | | 2-3 | | | | | |
| | EDCI | 51900 | Teaching Enlish Language Learners | | 3 | | | | | |
| | | | | | | | | | | |

52600 Language Study for Educators

EDCI

| EDCI | 55900 | Academic Langague and Content Area Learning | | 3 |
|-----------------------------------|------------|----------------------------------------------------------------------------------|-------|-----|
| EDCI/ EDPS | 20002 | Special Pop Sem: English Lang Learners and Students with Gifts OR Special | | 1 |
| | | Pop Sem: English Lang Learners and Students with Gifts | | |
| | | | | |
| High Ability (| - | • | 13-15 | |
| | | mpleted with a B- or better average | | |
| EDCI/ EDPS | 20001 | Special Pop Sem: Focus on Students with Disabilities and Differentiation OR | 1 | 1 |
| | | Special Pop Sem: Focus on Students with Disabilities and Differentiation | | |
| EDCI/ EDPS | 20002 | Special Pop Sem: English Lang Learners and Students with Gifts OR Special | | 1 |
| | | Pop Sem: English Lang Learners and Students with Gifts | | |
| EDPS | 24800 | Differentiating Corriculum and Instruction | | 1 |
| EDPS | 49500 | Practicum in Gifted, Creative, and Talented Education | | 3 |
| EDPS | 54200 | Curriculum and Program Development in Gifted Education | | 3 |
| EDPS | 54500 | Social and Affective Development of Gifted Students | | 3 |
| Select one | | | | |
| EDPS | 24000 | Children with Gifts, Creativity, and Talents OR | | 1 |
| EDPS | 54000 | Gifted, Creative, and Talented Children | | 3 |
| | | | | |
| Special Education (Non-Licensure) | | | 12-13 | |
| EDCI/ EDPS | 20001 | Special Pop Sem: Focus on Students with Disabilities and Differentiation OR | 1 | 1 |
| | | Special Pop Sem: Focus on Students with Disabilities and Differentiation | | |
| EDCI/ EDPS | 20002 | Special Pop Sem: English Lang Learners and Students with Gifts OR Special | | 1 |
| | | Pop Sem: English Lang Learners and Students with Gifts | | |
| EDPS | 21100 | Special Edcation Law, Policy, and Ethical Guidelines | | 3 |
| EDPS | 26501 | The Inclusive Classroom | | 2 |
| EDPS | 36201 | Positive Behavioral Supports | | 2-3 |
| EDPS | 41700 | Special Education Knowledge and Skills for General Educators | | 3 |
| | | | | |
| Applied Beho | avioral An | alysis (Non-Licensure) | 12 | |
| EDPS | 34100 | Introduction to Philosophical Underpinningd and Concepts of Behavior | | 3 |
| EDPS | 34200 | Applied Behavior Analysis - Assessment and Intervention | | 3 |
| EDPS | 44100 | Introduction to Ethics and Practice of Applied Behavior Analysis | | 3 |
| EDPS | 44200 | Advanced Intervention in Applied Behavior Analysis | | 3 |
| | | | | |

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 university concentration requirements are Visit the Indiana Department of Education website for more information about what courses can be taught once licensed in this area.

Please reference the 2023-2024 Mathematics Education Guidelines and Requirements and the 2023-2024 Mathematics Education Checklist for more information.