



Universidad Politécnica de Puerto Rico
Graduate School
Master Program in Sciences of Education in Natural
Sciences and Mathematics



M.S.ED

Sciences of Education in Natural Sciences and Mathematics

Education Courses: 18 credit-hours
Area of Interest Courses: 18 credit-hours
Total: 36 credit-hours

Education Courses

18 credits-hours

EDUC 5000 – Problem based Education (PBE)
EDUC 5010 – Curriculum Design and Evaluation
EDUC 5020 – Research Methods
EDUC 5030 – Teaching and Methodology: 6th to 12th grade Mathematics
EDUC 5031 – Teaching and Methodology: 6th to 12th grade Sciences
EDUC 6020 – Assessment and Improvement of Instruction
EDUC 6030 – Differentiating Instruction
EDUC 6100 – Action Research for Teachers

Area of Interest Courses

Select one (1) Area of Interest
18 credits-hours

Sciences and Mathematics at Elementary Level

MATH 6020 – Rational Numbers and Proportional Reasoning
MATH 6030 – Measurement, Data and Geometric Thinking
MATH 6040 – Algebraic Reasoning, Functions and Equations
SCIE 5010 – Fundamental of Environmental Education
SCIE 5020 – Software Applications and Technology
SCIE 6010 – Investigating the Living World
SCIE 6020 – Exploring the Physical World
SCIE 6030 – Exploring the Earth and Beyond

Natural Sciences at Secondary Level

SCIE 5010 – Fundamental of Environmental Education
SCIE 5020 – Software Applications and Technology
SCIE 6010 – Investigating the Living World
SCIE 6020 – Exploring the Physical World
SCIE 6030 – Exploring the Earth and Beyond
SCIE 6040 – Chemistry for Teachers

Mathematics at Secondary Level

(Select 18 credits)

MATH 5100 – Math Modeling
MATH 5210 – Calculus for Teachers I
MATH 5220 – Calculus for Teachers II
MATH 5500 – Advanced Math for Teachers
MATH 6110 – Discrete Mathematics II
MATH 6120 – Probability and Statistics for Teachers
MATH 6130 – Probability Models for Teachers
MATH 6150 – Introductory Topology
MATH 6160 – Applied Modern Algebra
MATH 6180 – Modern Geometry for Teachers

Contact Information:

Graduate School

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