

MIDDLE LEVEL EDUCATION WITH CERTIFICATION

Middle Level Education Programs with Pennsylvania Grades 4 to 8 Certification

Ms. Vicki Jones, Program Coordinator

The Master of Science in Education with a major in Middle Level Education (EDML) is a 36-credit program with a choice of concentration in Middle Level Mathematics, Science, English/Language Arts, or Social Studies. The degree prepares teachers to better meet the needs of adolescent learners and prepares teachers to apply for Pennsylvania's grades 4-8 certificate in a particular content area.

Prospective students must hold Pennsylvania Level I or Level II instruction certification. The curriculum for the degree and certification program includes adolescent development, cognition and learning, subject matter pedagogy, and assessment in the program of study

Students will select one of four concentrations at the time of application:

- Middle Level Mathematics
- Middle Level Science
- Middle Level Social Studies
- Middle Level English/Language Arts

Program Learning Outcomes:

1. The student will strengthen content and process knowledge in the chosen academic specialization.
2. The student will acquire and apply research-based pedagogical knowledge to practice that has been found to be most effective with diverse middle level learners in the chosen academic specialization.
3. The student will apply knowledge of instructional strategies and sound educational practice focused on meeting the needs of diverse adolescent learners in a middle school environment.

36-Credit EDML Master of Science in Education plus certification Program

Core Education

- ED 569 Teaching Diverse Learners Using Inclusive Classroom Practices (3 credits)

Core Knowledge Courses (9 credits required – Choose three of the following outside your concentration area):

- EDML 5002 Mathematics in Middle Level Education (3 credits)
- EDML 5003 Science in Middle Level Education (3 credits)
- EDML 5004 Literacy & Language in Middle Level Education (3 credits)
- EDML 5005 Social Studies in Middle Level Education (3 credits)

Professional Practice Courses (9 credits required)

- EDML 5001 Teaching Adolescent Learners at the Middle Level (3 credits)
- EDML 5007 Development of the Adolescent Learner at the Middle Level (3 credits)
- EDML 5009 Internship in Middle Level Education (Taken in final semester; special permission required) (3 credits)

Students select from one of four concentrations:

Middle Level Mathematics Concentration

- EDML 5010 Number Theory in Middle Level Education (3 credits)
- EDML 5011 Measurement Concepts in Middle Level Education (3 credits)
- EDML 5012 Data Analysis, Probability, and Statistics in Middle Level Education (3 credits)
- EDML 5013 Algebraic Concepts in Middle Level Education (3 credits)
- EDML 5014 Geometry Essentials in Middle Level Education (3 credits)

Middle Level Science Concentration

- EDML 5020 Scientific Inquiry and Literacy in Middle Level Science (3 credits)
- EDML 5022 Life Sciences in Middle Level Education (3 credits)
- EDML 5023 Physical Science in Middle Level Education (3 credits)
- EDML 5024 Earth and Space Sciences in Middle Level Education (3 credits)
- EDML 5025 Chemical Science in Middle Level Education (3 credits)

Middle Level English/Language Arts Concentration

- EDML 5030 Adolescent Literature (3 credits)
- EDML 5031 Literary Forms and Media Literacy in Middle Level Education (3 credits)
- EDML 5032 Reading Strategies in Middle Level Education (3 credits)
- EDML 5033 Teaching and Evaluating Writing I in Middle Level Education (3 credits)
- EDML 5034 Teaching and Evaluating Writing II in Middle Level Education (3 credits)

Middle Level Social Studies Concentration

- EDML 5040 US History in Middle Level Education (3 credits)
- EDML 5041 Geography in Middle Level Education (3 credits)
- EDML 5042 Government and Civics in Middle Level Education (3 credits)
- EDML 5043 World History in Middle Level Education (3 credits)
- EDML 5044 Fundamentals of Economics in Middle Level Education (3 credits)

PA certification and endorsement candidates will be recommended for certification upon successful completion of the required certification coursework, fieldwork, and internship. Candidates must self-register and pass the certification test, if required. Some certifications require verification of experience. In those cases, the candidate will need to

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have input from their school district verifying that they have satisfactory met professional school experience required. Application for certification and Endorsement is made by the candidate through the PDE Teacher Information Management System (TIMS) found on the PDE portal.