

TEACHER LICENSURE PROGRAM 5-8: MATHEMATICS AND SCIENCE WITH OPTIONAL MED

Overview of Plan of Study

Candidates for Initial licensure must have a bachelor's degree with a major in mathematics or science or two minors in mathematics and/or science and have completed or plan to complete coursework in the following areas:

- Chemistry
 - Matter and its interactions
- Physics
 - Motion and Stability: Forces and Interactions
 - Energy
 - Waves
- Biology
 - From Molecules to Organisms
 - Heredity
 - Biological Diversity
- Environmental Science or Ecology or Earth Science
 - Ecosystems
- Science and Engineering Practices, including Laboratory Techniques, Research Methods & Computers.
- History & philosophy of Science
- Algebra
- Euclidean geometry
- Trigonometry
- Discrete/finite mathematics
- Introductory calculus through integration
- History of mathematics
- Adolescent or Developmental Psychology

The middle school licensure program prepares students to become educated and competent teachers. The curriculum emphasizes a well-rounded education, early field experiences, and the study of research and knowledge related to effective teaching and learning.

Teacher Licensure Program 5-8: Math & Science

| Code | Title | Hours |
|----------|---|-------|
| EDUC 605 | Sheltered English Instruction MDSC/SECE | 3 |
| EDUC 610 | Field Placement I | 2 |
| EDUC 621 | Field Placement II 5-12 | 2 |
| EDUC 630 | Teaching in an Inclusive Classroom | 3 |
| EDUC 636 | Reading in the Content Area | 3 |
| EDUC 644 | Curriculum and Instruction 5-12 | 3 |
| EDUC 650 | Classroom Management/Teaching Strategies MDSE/SECE) | 3 |
| EDUC 680 | Student Teaching Practicum 5-8 | 9 |
| EDUC 681 | Student Teaching Seminar 5-12 | 3 |

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|--------------------|---|-----------|
| EDUC 702 | Ethics and the Foundations of Schooling | 3 |
| Total Hours | | 34 |

Additional Credits to Complete Master of Education Degree

MEd students in all concentrations are required to complete the following core courses at MCLA:

| Code | Title | Hours |
|---|--|-----------|
| Master of Education with first Initial License | | |
| EDUC 717 | Curriculum Theory and Democratic Practice | 3 |
| EDUC 719 | Discourses of Difference | 3 |
| EDUC 783 | Philosophies and Methodologies of Inquiry ¹ | 3 |
| EDUC 784 | Capstone Seminar ¹ | 3 |
| Total Hours | | 12 |

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EDUC 783 and 784 (the capstone core courses) must be taken in sequence. EDUC 783 is offered in the Fall semester only, followed by EDUC 784 in the Spring semester. These courses provide the capstone experience for the M.Ed. program. Students in the culminating master's experience courses (EDUC 783 and EDUC 784) will focus on inquiry related to their areas of concentration. These should be the last courses students take in their M.Ed. program.

Note: Additional coursework may be required to meet the Subject Matter Knowledge (SMK) requirements for the license.