

CURRICULUM AND INSTRUCTION

Dr. Marcia Matanin, Department Chairperson and Graduate Program Coordinator

1101 Beeghly College of Education
(330) 941-3251
mjmatanin@ysu.edu

Introduction

The Teacher Education Master's program in Curriculum and Instruction is a totally online program, focusing on the development of professional practitioners committed to quality teaching and committed to the belief that all children can learn. Central to the development of such professionals is the refinement of competencies in the areas of teaching, learning, assessment, technology, and communication. Students admitted to this program will choose one of five possible specialization areas: literacy, digital teaching and learning, teacher leadership, STEM, mathematics or general studies.

The Literacy specialization will support an increased depth of knowledge and skills in the area of language arts and reading. Digital Teaching and Learning will focus on the paradigm shift in teaching that utilizes technology as an effective tool in 21st-century classrooms, P-12. The specialized area of Teacher Leadership will support an increased depth of knowledge and skills in the area of Informal and Formal Leadership in and out of the classroom and is aligned to the new Ohio Teacher Leadership Standards. STEM will focus on the implementation of STEM curriculum in the P-12 curriculum through inquiry based learning. Mathematics will support an increased depth of knowledge needed to teach mathematics competencies at the high school level. The general studies option is for students who want to obtain a C&I degree without an area of specialization. Courses for general studies may come from any department at YSU and may, or may not, be offered online.

For more information about the Department of Teacher Education, please contact the Teacher Education Office at (330)-941-3251.

Mission

The Department of Teacher Education's mission is to empower teachers for professional practice. The mission commits the faculty to a theme of critical reflective practice where candidates are engaged in activities that build on their knowledge, skills, and dispositions related to effective teaching. Faculty members are committed to educating practicing professionals in the areas of: scholarship, teaching, leadership, management, communication, and interpersonal relations. The Department also offers a variety of professional development courses and workshops.

Accreditation

The master's programs in the Department of Teacher Education are accredited by the National Council for Accreditation of Teacher Education (NCATE). <http://www.ncate.org/>.

Curriculum and Instruction Program

The Curriculum & Instruction program is a comprehensive program completely related to curriculum and instruction in the classroom. Additionally, this program gives students the opportunity to take other related courses of interest.

COURSE	TITLE	S.H.
Required Core		
TCED 6905	Introduction to Digital Teaching and Learning	3
TCED 6936	Curriculum, Assessment, and Instruction to Improve Learning	3
TCED 6933	Brain Based Teaching and Learning	3

TCED 6932	Action Research in Urban and Rural Education	3
Total Semester Hours		12

Areas of Specialization

COURSE	TITLE	S.H.
Digital Teaching and Learning		
TCED 6906	Designing Curriculum for the 21st Century Learner	3
TCED 6907	Literacy for Digital Teaching and Learning	3
TCED 6908	Digital Learning Environments	3
TCED 6910	Leadership for the 21st-Century	3
TCED 6911	Coding for Educators	3
TCED 6912	Gaming for Educators	3

Total Semester Hours 18

COURSE	TITLE	S.H.
Literacy		
TERG 6922	Organizing and Managing Diverse Literacy Environments	3
TERG 6923	Literacy and Phonics Instruction	3
TERG 6924	Content Literacy	3
TERG 6926	Reading and Language Arts Assessment	3
TERG 6927	Practicum: Coaching for Effective Literacy Instruction	3
TERG 6928	Practicum: Case Study in Reading and Language Arts	3

Total Semester Hours 18

COURSE	TITLE	S.H.
Teacher Leadership		
EDAD 6901	Instructional Leadership Beyond the Classroom	3
EDAD 6903	Building Capacity of Adult Learners	3
EDAD 6905	Culturally Responsive Teaching and Learning	3
EDAD 6906	Data-Coaching and Decision Making	3
EDAD 6933	Educational Leadership and Organizational Change	3
EDAD 6954	Community Engagement and Collaborative Partnerships	3

Total Semester Hours 18

COURSE	TITLE	S.H.
STEM		
TCED 6940	Foundations of STEM Education Theory to Practice	3
TCED 6941	Engineering and Technology Inquiry	3
TCED 6942	Environmental Inquiry	3
TCED 6943	STEM Integration in the P-12 Classroom	3
TCED 6944	A Global Perspective	3
TCED 6945	STEM Leadership	3

Total Semester Hours 18

COURSE	TITLE	S.H.
Mathematics		
MATH 5825	Advanced Linear Algebra	3
MATH 6995	Special Topics (Analysis for Teachers)	3
MATH 6995	Special Topics (Algebra for Teachers)	3
MATH 6995	Special Topics (Discrete Math for Teachers)	3
MATH 6995	Special Topics (History of Mathematics)	3
STAT 6940	Advanced Data Analysis	3

Total Semester Hours 18

COURSE	TITLE	S.H.
General Studies		
Eighteen semester hours of courses to be selected by student in consultation with advisor.		Total Semester Hours
		18

Candidates must purchase a TaskStream account at the beginning of their studies, which is necessary for our accreditation through The Council for the Accreditation of Educator Preparation (CAEP).

All candidates must take and successfully pass the Comprehensive Examination which covers their coursework.

Learning Outcomes

General Learning Outcomes

Candidates develop a deep understanding of the critical concepts and principles of their field of preparation and, by completion, are able to use professional specialty practices flexibly to advance the learning of all P-12 students toward attainment of college- and career- readiness. Candidates apply knowledge and skills appropriate to their professional field of specialization so that learning and development opportunities for all P-12 improved through:

- applying data literacy;
- using research and understanding of qualitative, quantitative and/or mixed methods research methodologies;
- employing data analysis and evidence to develop supportive school environments;
- reading and/or participating in collaborative activities with others such as peers, colleagues, teachers, administrators, community organizations, and parents;
- supporting appropriate applications of technology for their field of specialization;
- applying professional dispositions, laws, and policies, codes of ethics and professional standards appropriate to their field of specialization.

Advanced program completers learn and apply specialized content and discipline knowledge contained in approved state and/or national discipline-specific standards.

Specific Specialization Outcomes

Teacher Leadership;

In this program you will learn to:

- promote an inclusive, equitable, and collaborative culture among staff members.
- implement evidence-based strategies and research to improve practice and student learning.
- facilitate professional learning by utilizing adult learning principles.
- employ evidence-based leadership practices to drive school improvement initiatives.
- make effective data-based decisions which lead to school improvement.
- strengthen relationships and partnerships with school and community stakeholders.
- advocate for student learning and the teaching profession.

Digital Teaching and Learning:

In this program, you will learn to:

- explore and embrace the new paradigm shift in digital teaching and learning that supports students to be entrepreneurs of their own learning.
- meet the challenge of moving into a more personalized, student-centered approach to teaching.
- identify and implement research-based teaching methods that enhance digital learning in P-12 classrooms and support 21st-century teaching and learning.
- evaluate, select, and integrate effective learning technologies to enhance student learning and prepare students for a digital world.
- create digital learning environments that promote and sustain respectful digital citizens.
- develop and utilize leadership skills that empower educators to be effective change agents in their schools and districts.

Literacy

In this program, you will learn to:

- establish and maintain a child-centered classroom culture that provides diverse learning opportunities, materials, and practices for all students.
- develop a system of providing instructional support to peers using student data, observations, model teaching, conferencing, and staff development.
- assure that all aspects of literacy learning and usage are applied in every content area d. recognizing the developmental nature of spelling and phonics learning and use when selecting and critiquing resources and activities in order to sequence instruction.
- incorporate all aspects of literacy assessment, curriculum development, materials selection, lesson design, instruction and self-reflection as a means to improving the learning of all students.
- apply a multifaceted approach to assessment as a means of obtaining authentic information about the strengths and needs of diverse students for the purposes of instructional decision-making.

Math

In this program, you will learn to:

- describe connections between discrete mathematics, abstract algebra, real analysis and the high school classroom
- develop the ability to read and understand advanced mathematical definitions, theorems, and proofs
- develop the ability to communicate in mathematics and produce well-written proofs
- connect algebraic concepts and theory to the high school classroom
- analyze historical sources of mathematics and summarize their major results
- employ various proof techniques to verify mathematical arguments
- explain the fundamental discrete mathematical structures and their importance
- implement proper statistical data analysis techniques to model and analyze complex problems, and demonstrate competence in analyzing data
- communicate statistical ideas clearly in oral and written forms using appropriate statistical terminology and generate reports that show statistical expertise in writing and model implementation.

STEM

In this program you will learn to:

- clarify the definition of STEM in the context of K-12 science education.
- investigate the impact of state and national policies on the trends in STEM education.
- identify the historical changes in K-12 Science Education and evaluate the present status of K-12 Science Education in their state and school district.

- evaluate the characteristics of effective STEM programs and learning environments.
- develop the ability to apply knowledge of math, science and the principles of environmental engineering applications to formulate and solve environmental engineering programs for different grade levels.
- develop the knowledge necessary to understand the impact of environmental engineering solutions in a global/societal context as well as contemporary issues.
- design lessons that engage groups of students in STEM education through pedagogical strategies of social interactions, cooperative learning, inquiry-based and project-based learning that focus on meaningful and constructivist experiences to solve real-world problems.

Admission Requirements

In addition to the minimum College of Graduate Studies admission requirements, applicants must have the following:

- A bachelor's degree from a college or university certified by a regional accrediting agency approved by the U.S. Department of Education.
- Valid teaching license
- Cumulative GPA in undergraduate work of at least a 2.5 on a 4.0 scale.
- Students with a GPA of 2.5-2.99 must present a satisfactory score on the general test of the GRE with scores of 150 verb., 148 quant., and 4.0 writing.
- Students with a GPA of 3.0 or above are eligible for a GRE waiver
- 3 references that include: name, email and phone number