MEd
in Curriculum & Instruction:
Mathematics (PreK-12)
Founded in 1905, Concordia University-Portland is an accredited, nonprofit, Christian liberal arts university committed to sharing our Lutheran values of open discourse, intellectual inquiry, justice, compassion, diversity, and inclusion to prepare leaders for the transformation of society.

Concordia University’s College of Education is one of the most respected names in learning today. Using forward-thinking knowledge based on emerging research, Concordia-trained professionals continue to change the world student by student. Connected through an active, professional network already 10,000 alumni strong, our educators represent one of the nation’s largest groups of MEd recipients (IPEDS 2016) with growing numbers of EdD graduates elevating our impact each semester.

**CONCORDIA UNIVERSITY’S MASTER OF EDUCATION PROGRAMS**

Our MEd programs offer relevant curricula designed and taught by an engaging faculty that includes teachers, superintendents, and principals in the field. Our five-week classes can be accessed completely online—anytime, anywhere. That convenience paired with clearly defined coursework, realistic deadlines, and the ability to immediately apply what you learn in your classroom are what make our degree programs doable and ideal for your busy working lifestyle. The potential career benefits—from higher pay to promotions—are second only to the reward of realizing the everlasting impact you’ll have on the lives of your students.

The MEd in Curriculum & Instruction core courses and capstone experience are the foundation for this program. You’ll receive individualized instruction that supports your professional and personal goals as you develop your skills as a high-impact educator.

If you’re passionate about next-generation learning, Concordia is the university leading the way and shaping the future of education.
The MEd in Curriculum & Instruction: Mathematics (PreK-12) program allows you to enhance your knowledge and hone your skills as a teacher of foundational math concepts. With an emphasis on National Council of Teachers of Mathematics (NCTM) standards, this program addresses developmental learning, acquiring proficiency, problem solving, and demonstrating understanding in mathematics for all children. You’ll utilize technology to improve student outcomes in PreK through grade 12 core curriculum.

**LET’S CHAT**

**CALL:** 1-888-986-8148  
**APPLY ONLINE:** education.cu-portland.edu/apply  
**QUESTIONS:** education.cu-portland.edu  
**EMAIL:** admissions@education.cu-portland.edu

**AT A GLANCE**

30 CREDIT-HOUR PROGRAM  
100% ONLINE  
COMPLETION IN ONE YEAR (with built-in breaks)  
CONSTANTLY UPDATED CURRICULUM  
ACCREDITED BY THE NORTHWEST COMMISSION ON COLLEGES AND UNIVERSITIES (NWCCU)

**PROGRAM OBJECTIVES**

In addition to meeting the objectives and requirements for the MEd in Curriculum & Instruction: Mathematics (K-14) degree program, successful candidates will also demonstrate:

- Expertise in the utilization of new methods of authentic assessment and strategies as tools to evaluate student learning progress in relation to Oregon’s Common Core State Standards and specific district standards
- Effective instructional skills in planning, implementing, and assessing instruction in settings that include diverse cultural populations and special needs students
- An understanding of the ways that the specific curricular/instructional area has the potential to be responsive to classroom diversity
- A clear understanding of the moral leadership required of them as advanced scholars in the chosen area of curriculum and instruction
- The ability to modify instructional plans and promote alternative goals and strategies when necessary, particularly in relation to assessment results
## COURSE SEQUENCE

### CORE COURSES

**EDGR 502**  
Developing Character Through the Curriculum  
3 credits

**EDGR 535**  
Theories of Teaching and Learning  
3 credits

**EDGR 595**  
Community of Learners  
3 credits

**EDGR 602**  
Contemporary Educational Thought  
3 credits

### CONCENTRATION COURSES

**EDCI 526**  
Foundational Mathematics Concepts  
3 credits

**EDCI 536**  
Learning and Teaching Measurement and Geometry  
3 credits

**EDCI 546**  
Learning and Teaching Algebraic Concepts, Data Analysis and Probability  
3 credits

**EDCI 556**  
Transformative Mathematics in the Differentiated Classroom  
3 credits

### RESEARCH COURSES

**EDGR 601**  
Educational Research  
3 credits

**EDGR 698**  
Action Research (capstone)  
3 credits

**EDGR 696**  
Practitioner Inquiry (capstone)  
3 credits

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**MATHEMATICS (PreK-12)**

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**SELECT ONE CAPSTONE COURSE**
**COURSE DESCRIPTIONS**

Concordia University-Portland’s Master of Education in Curriculum & Instruction: Mathematics (K-14) is a 30 credit-hour degree program.

**CORE COURSES**

**EDGR 502**
Developing Character Through the Curriculum
3 credits

This course will provide teachers with the resources and skills necessary to integrate character themes and character development into their school curriculum. It provides a forum in which to discuss and develop one’s own moral perspectives on the basis of generally accepted criteria.

**EDGR 535**
Theories of Teaching and Learning
3 credits

This course is designed to provide leaders with the latest psychological research about learning and guide them in exploring ways to directly apply these precepts to their current work setting. Topics will include cognitive science, learning theory, and relevant teaching theories that utilize this information. The course will fuse the latest biological and psychological understanding of how the brain learns so candidates can harness this knowledge and apply it directly to learning situations.

**EDGR 595**
Community of Learners
3 credits

Relationships constructed on trust are critical for an efficient, collegial, collaborative workplace. This course challenges candidates to confront the tremendous diversity in their current environment and develop strategies to build community in the midst of the social, ethnic, economic and alternative lifestyle differences that permeate today’s 21st century workplace. In sum, this course stresses the critical importance of creating community in the workplace and illustrates how that community, once established, can generate an efficient, supportive, and positive work place.

**EDGR 602**
Contemporary Educational Thought
3 credits

Candidates identify, review, and analyze major trends and issues impacting the contemporary state and national educational scenes. Each class session provides students with an opportunity to evaluate the advantages and liabilities of current educational reforms and issues from the perspective of prevailing educational research as well as from their own personal beliefs and current work environment. Candidates will also consider how they can impact and influence change in their own workplace.
**CONCENTRATION COURSES**

This course presents an overview of the principles set forth by the National Council for Teachers of Mathematics and is designed for teaching all learners: Equity, Curriculum, Teaching, Learning and Assessment. In the study of the historical perspective and the theoretical foundations of mathematical teaching, close attention is given to the connection between theorists and practical application in the classroom. Emphasis is placed on transformational learning based in a developmental, constructivist approach.

**EDCI 526**  
Foundational Mathematics Concepts  
3 credits

This course will guide teachers in the development of a foundation for the teaching and learning of measurement and geometry through transformational learning based on a developmental, constructivist approach. Numbers and operations are woven into the study of measurement and geometry in a meaningful, integrated manner. Emphasis is placed on student and teacher thinking, lesson planning, transformational teaching methods, the use of technology as an integral part of teaching and learning math, and assessment. This course will foster a deeper understanding of pk-12 national standards, as well as the three NCTM curriculum focal points for each grade level (pk-12), in order to strengthen a teacher’s thinking and perceptions of geometry as well as instructional practices which effectively increase student understanding of measurement and geometry.

**EDCI 536**  
Learning and Teaching Measurement and Geometry  
3 credits

**EDCI 546**  
Learning and Teaching Algebraic Concepts, Data Analysis and Probability  
3 credits

This course will guide teachers in the development of a foundation for the learning and teaching of algebraic concepts, data analysis, and probability through transformational learning based on a developmental, constructivist approach. Numbers and operations are woven into the study of algebra, data analysis, and probability in a meaningful integrated manner. Emphasis is placed on student and teacher processing of algebra, on lesson planning, transformational teaching methods, the use of technology as an integral part of learning and teaching math, and assessment.

**EDCI 556**  
Transformative Mathematics in the Differentiated Classroom  
3 credits

The focus of this course is transformational learning and teaching that meets the needs of all learners through a developmental, constructivist approach. There will be an emphasis on setting up the classroom, getting to know the learners, assessing learning styles and needs, differentiated teaching strategies including interactive age-appropriate games and manipulatives, and providing anchor activities to solidify learning. Technology is considered an integral part of learning and teaching math in the differentiated classroom and will include the strategic use of technology resources such as SmartBoard technology, digital tools, computers, calculators, online digital games, and podcasts along with Internet-based resources. The course will provide a plethora of practical ideas for making math a positive and transformational experience for teachers and learners alike.
The Curriculum & Instruction: Mathematics program helped me to hone my skills of effectively differentiating lessons and understanding the differences in students. It is easy to teach an individual a lesson. It takes understanding and planning to meet the needs of all the students in a classroom.

-TAMAR SHORR '17, MED IN C&I: MATHEMATICS

LET’S CHAT

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This course provides students with the basic competencies necessary to understand and evaluate the research of others, and to plan their own research with a minimum of assistance. This course includes the basics of both qualitative and quantitative research.

The Master of Education culminates with the choice of either EDGR 698-Action Research or EDGR 696-Practitioner Inquiry. Either option provides candidates with an understanding of the role of research in the field of education as a tool to solve problems and as a way to improve student learning.

Action Research is one of the capstone projects for the Master of Education program. During this five-week course, candidates will learn more about the action research methodology, complete final edits of the Literature Review, and design a complete Action Research proposal including data collection methods and analysis approaches. (During this course, the proposal will NOT be implemented with students/participants.) This design provides students with the requisite skills and means to pursue the transformative practice called “Action Research” in their classroom, school, district or other work environment. The design method for the capstone project closely aligns with current classroom realities, with district and school requirements, and the needs of teachers and students.

Prerequisite: Successful completion of EDGR 601 Educational Research

Practitioner Inquiry focuses on the reflective acts of the candidate as an educator seeking to improve teaching practice. Premised on the self-study research methodological traditions (Samaras, 2011), Practitioner Inquiry provides the opportunity to reflect on teaching practice and generate improvements based on classroom observation. Practitioner Inquiry focuses on the educator and her/his own practices, developing skills of inquiry, observation, reflection, and action in teachers.

Prerequisite: Successful completion of EDGR 601 Educational Research
U.S. CITIZENS OR PERMANENT RESIDENTS

Completed online application:
education.cu-portland.edu/apply

Applicants must have earned a bachelor’s degree or higher from a regionally accredited institution

Official transcripts from a regionally accredited college/university with posted bachelor’s or master’s degree. For your convenience, please sign the transcript release form if you would like Concordia University-Portland to request official transcripts on your behalf.

Work History Form

Applicants must have a cumulative undergraduate GPA of 2.8 or higher*

Statements of Intent that addresses the following:

Briefly introduce yourself to the Graduate Admissions Office and College of Education teams by discussing your professional background and your interest in pursuing a Master of Education at Concordia. (~75–100 words)

Describe your professional goals and their alignment with your chosen program and to Concordia’s overall mission. Illustrate how your strengths and experiences have prepared you for success in the program. (~200-250 words)

Discuss an immediate, real-world challenge affecting P-12 educational settings. Provide an example. What action should educators take to address this challenge? (~200-250 words)

*Standard admission is provided to students who meet all the admission requirements of the specific program to which they are applying. Conditional admission may be granted to students who do not meet specific admission requirements; however, additional material and documentation will be requested. GPA and other criteria vary by degree program; please review the specific requirement listed and contact an Enrollment Specialist if you have additional questions or need more information.
INTERNATIONAL STUDENTS

International students (anyone who is not a U.S. citizen or permanent resident) will need to fulfill the following requirements to be considered for admission into any of our online programs.

The same requirements as U.S. citizens/permanent residents, plus the following additions:

Proof of a bachelor’s or master’s degree that is recognized by the Ministry of Education from that country

Statement of Financial Guarantee

Your university or college transcripts will need to be evaluated by an approved transcript evaluation partner

For applicants educated in a university or college where English is not the medium of instruction or where English is not the native language, official score results for the TOEFL or IELTS must be submitted. Any English test score older than two years will not be accepted. Score requirements vary by institution and program:

TOEFL: Internet-based score - 80; paper-based score - 550; IELTS: 6.5

International students enrolled in an online program will not be issued an I-20 from Concordia University-Portland and will not be eligible to receive an F-1 student visa to study in the United States.
MEd in Curriculum & Instruction: Mathematics (PreK-12) | 06/14/18

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EDUCATION.CU-PORTLAND.EDU/APPLY