Master of Science (MS) in **Education Innovation and Technology** with a specialization in **Professional Growth and Development**

*Effective January 8, 2018*
Master of Science (MS) in **Education Innovation and Technology** with a specialization in

**Professional Growth and Development**

Meet your full potential by learning how to lead colleagues through the implementation of new initiatives.

Learners who desire to facilitate workshops and truly be a thought leader in their field benefit from completing this specialization.

The Professional Growth and Development master's specialization is designed to provide learners with a thorough understanding of strategies for leading and mentoring other educators in developing as professionals. The curriculum in this specialization emphasizes the skills required to engage in professional learning communities and how learners acquire the skills to engage in instructional mentoring and coaching that improves and supports the teaching practice of other educators. Upon successful completion of this specialization, learners are prepared to lead their colleagues in ongoing professional development.

This specialization is part of Capella University’s Education Preparation Provider (EPP) unit, which is accredited based on the National Council for Accreditation of Teacher Education (NCATE) standards for a period of 8 years, from 10/22/2010 to 12/31/2018. Capella University’s EPP is eligible for and will seek accreditation based on the Council for the Accreditation of Educator Preparation (CAEP) Standards during fall 2017/spring 2018. CAEP is the single specialized accreditor for educator preparation, and administers NCATE accreditation.
Career Information

RELATED EMPLOYMENT SETTINGS TO EXPLORE
- P–12 public schools
- P–12 private schools
- P–12 virtual schools
- School district
- Education specific professional development companies

RELATED JOB TITLES TO EXPLORE*
- Instructional coach
- Instructional technology coach
- Personalized learning manager
- Professional development specialist
- Education consultant
- Online curriculum writer
- P–12 teacher
- P–12 lead teacher

SPECIALIZATION OUTCOMES†
- Engage in professional learning community to improve one’s own and other’s instructional practices
- Use qualitative and quantitative data to make decisions about instructional design and delivery
- Assess professional development opportunities for remaining current in research-based pedagogy, content, and technology integration strategies to improve instructional practice
- Engage in instructional mentoring or coaching to improve practice and increase student achievement
- Provide instructional mentoring or coaching to improve and support practice of colleagues
- Model the knowledge, skills, and dispositions to work successfully with diverse learners, their families, and other professionals

*These are examples intended to serve as a general guide. Because many factors determine what position an individual may attain, Capella cannot guarantee that a graduate will secure any specific job title.

†Capella University cannot guarantee licensure, certification, or endorsement. State regulations vary regarding professional licensure and salary benefits. It is the learners’ responsibility to understand and comply with requirements for their states.
Curriculum

- 9 required courses
- 2 elective courses
- Total program credits: 46 quarter credits

CORE COURSES
ED5010  Foundations of Master's Studies in Education .......................... 4 quarter credits
EDT5100  Leading Innovation and Implementing Change .......................... 4 quarter credits
EDT5102  Integrating Technology into Data Assessment and Evaluation .......................... 4 quarter credits
EDT5104  Teacher Dispositions and Ethics in the Digital Age .......................... 4 quarter credits

SPECIALIZATION COURSES
EDT5130  Understanding Competency-Based Curriculum and Instruction .......................... 4 quarter credits
EDT5150  Instructional Coaching to Improve Teaching and Learning .......................... 4 quarter credits
EDT5152  Planning and Implementing Site-Based Initiatives .......................... 4 quarter credits
EDT5126  Collaborative Learning Environments .......................... 4 quarter credits

ELECTIVE COURSES
Recommended elective courses:
EDT5120  Instruction in the 21st-Century Classroom .......................... 4 quarter credits
EDT5122  Digital Citizenship and Technology Applications .......................... 4 quarter credits
EDT5125  Integrating Technology to Enhance Learning .......................... 4 quarter credits
EDT5132  Authentic Assessments and the Data-Driven Classroom .......................... 4 quarter credits
EDT5134  Adaptive Learning and Competency-Based Assessments .......................... 4 quarter credits
EDT5140  Personalized Learning: Instruction and Assessment .......................... 4 quarter credits
EDT5142  Adaptive Instruction and Assessment .......................... 4 quarter credits
EDT5144  Using Data to Personalize Instruction .......................... 4 quarter credits

OR
Choose any graduate course(s).

CAPSTONE COURSE
EDT5900  Innovation and Technology Capstone .......................... 6 quarter credits

This specialization does not lead to license, endorsement, or other professional credential. For more information, see the Licensure section for this program on Capella’s website (www.capella.edu). Teachers are advised to contact their school district to determine whether a program may qualify for salary advancement.

This specialization has not been reviewed or approved by the Kentucky Education Professional Standards Board (EPSB); KY residents are not eligible for certification, endorsement, rank change, licensure, renewal, etc. by the EPSB.

The courses in this program may require live web conferencing activities and/or learner audio/video recordings. Learners who require assistive technology or alternative communication methods to participate in these activities should contact Disability Services to request accommodations.
Core Course Descriptions

ED5010  Foundations of Master's Studies in Education  4 QUARTER CREDITS
This course provides learners with opportunities to acquire and use graduate-level skills with an emphasis on critically examining and applying current educational research to teaching practices. Learners develop expertise in scholarly research and writing and explore the relevance of multicultural perspectives and diversity to work in their educational settings. **Must be taken during the first quarter by learners who have been admitted to the MEd in Teaching and Learning, MS in Education, MS in Education Innovation and Technology, and MS in Higher Education degree programs and the Adult Education and Higher Education Leadership and Administration graduate certificate programs. Cannot be fulfilled by transfer.**

EDT5100  Leading Innovation and Implementing Change  4 QUARTER CREDITS
In this course, learners demonstrate key skills required to lead change in K–12 schools and to implement innovative instructional techniques that enhance learning for all students. Learners examine innovative instructional practices that incorporate technology and media, develop ways to use these practices to meet the needs of culturally and linguistically diverse learners and learners with a wide range of learning needs, and apply strategies for collaborating with colleagues to integrate state-of-the-art practices into daily classroom instruction.

EDT5102  Integrating Technology into Data Assessment and Evaluation  4 QUARTER CREDITS
This course focuses on how to appropriately collect and analyze student data, and apply technology to enhance the assessment and evaluation experience. Learners use technology tools to collect and analyze both quantitative and qualitative data as a means to identify instructional strengths and problems, implement best practice strategies and solutions, and interpret student learning data. Learners also consider the use of a variety of assessments and digital tools in order to best promote learning in a diverse classroom. Finally, using these digital tools, learners apply methods for communicating information to key stakeholders, while adhering to ethical standards regarding student data and being mindful of cultural contexts. **This course requires access to an educational setting, students or learners, and/or classroom practitioners.**

EDT5104  Teacher Dispositions and Ethics in the Digital Age  4 QUARTER CREDITS
This course focuses on values, commitments, beliefs, and behaviors that teachers must demonstrate inside and outside of the school setting to promote innovation in K–12 settings, and foster safe and ethical online behavior of students. Learners examine rights and responsibilities required in digital interactions with others, and how to model these behaviors for their students. Finally, learners demonstrate dispositions consistent with promoting innovative practice in K–12 schools. **This course requires access to an educational setting, students or learners, and/or classroom practitioners.**

Specialization Course Descriptions

EDT5126  Collaborative Learning Environments  4 QUARTER CREDITS
This course focuses on creating systems for building, supporting, and sustaining collaborative learning. Learners evaluate structures and systems that leverage technology to provide opportunities for collaborative learning and professional collaboration. Learners explore theories, research, and models that support collaborative learning and professional learning communities, and also how to create opportunities for students and teachers to work collaboratively within live and virtual settings.

EDT5130  Understanding Competency-Based Curriculum and Instruction  4 QUARTER CREDITS
Learners in this course gain an understanding of the differences between standards, outcomes, and competencies and how they can be integrated into the curriculum. Learners build on this understanding, mapping competencies to outcomes and aligning standards to competencies and outcomes. Learners integrate competency-based curriculum and lesson planning with best-practice teaching approaches and develop competency-based classroom management techniques. **This course requires access to an educational setting, students or learners, and/or classroom practitioners.**
EDT5150  Instructional Coaching to Improve Teaching and Learning  4 QUARTER CREDITS
This course focuses on coaching models and techniques that are solution oriented. Learners evaluate and implement coaching models, planning strategies for professional growth, setting goals, monitoring progress, and identifying accountabilities in order to determine the effectiveness of assessment and evaluation models that aim to strengthen the knowledge, skills, dispositions, and classroom practices of teachers. Learners also review comprehensive performance assessment and evaluation systems that provide targeted support, assistance, and professional growth opportunities based on teachers’ individual needs as well as the needs of their students, schools, and districts. This course requires access to an educational setting, students or learners, and/or classroom practitioners.

EDT5152  Planning and Implementing Site-Based Initiatives  4 QUARTER CREDITS
Learners in this course develop a plan to introduce and implement an initiative within their school, including evaluating plan components; identifying key members of the planning team, participants affected by the initiative, types of professional development needed to successfully launch the initiative, and determining metrics for evaluating the initiative’s effectiveness. Learners also develop the skills necessary to integrate adult learning theory and current research-based best practices into professional development program planning. This course requires access to an educational setting, students or learners, and/or classroom practitioners.

Elective Course Descriptions

EDT5120  Instruction in the 21st-Century Classroom  4 QUARTER CREDITS
In this course, learners investigate the use of instructional technology tools in the K–12 classroom, including the Technological Pedagogical Content Knowledge (TPACK) model, Marzano’s Teacher Evaluation model, and Shulman’s model of Pedagogical Reasoning and Action. Learners evaluate structures that help develop classroom digital learning experiences, which enhance teaching and learning. Learners apply the Substitution Augmentation Modification Redefinition (SAMR) model, Digital Bloom’s Taxonomy, and backwards design in planning for effective teaching with technology. Learners also evaluate ways that 1:1 computing is utilized in the classroom as framed by the Online Learning Theoretical Framework. In addition, learners analyze implementation strategies for Bring Your Own Device (BYOD) and blended learning with a special emphasis on the flipped classroom model. This course requires access to an educational setting, students or learners, and/or classroom practitioners.

EDT5122  Digital Citizenship and Technology Applications  4 QUARTER CREDITS
In this course, learners evaluate the ways that students and teachers become responsible digital citizens. Learners apply best practices for responsibly accessing, evaluating, and using online resources and social media, and analyze the nine elements of digital citizenship, cyber-ethics, cyber-safety, and cyber-bullying. In addition, learners evaluate ways that teachers align their lessons, objectives, and outcomes to a variety of standards for teaching and learning. Learners also explore structures and systems that can be implemented to manage a variety of devices and instructional time in a 1:1 environment. Finally, learners institute routines to increase student achievement and motivation to learn, selecting and creating a secure digital learning environment for students.

EDT5125  Integrating Technology to Enhance Learning  4 QUARTER CREDITS
In this course, learners investigate the ways in which teachers integrate technology to create personalized learning opportunities that engage, motivate, and empower students. Learners analyze educational theories and strategies that support personalized instruction. Learners also evaluate a variety of educational technology tools that support the personalization of instruction through effective digital integration to increase student achievement and engagement. In order to meet the diverse needs of all students, learners will plan and implement personalized instruction in their own learning environment.
EDT5132  Authentic Assessments and the Data-Driven Classroom  4 QUARTER CREDITS
In this course, learners analyze authentic assessment as an evaluation process that includes multiple forms of performance that reflect student learning, achievement, and motivation in real-world contexts. Learners develop a variety of authentic assessment techniques, including performance assessments, portfolios, and self-assessments and collect, summarize, analyze, and apply assessment data. The course also emphasizes techniques for organizing and participating in grade-level or school-wide collaborative teams.

EDT5134  Adaptive Learning and Competency-Based Assessments  4 QUARTER CREDITS
In this course, learners utilize a variety of formative and authentic assessment techniques in an educational setting and interpret data from formative assessments to inform instruction. Learners implement adaptive learning approaches to meet the diverse needs of all learners and apply Universal Design for Learning (UDL) principles to competency-based assessment. This course requires access to an educational setting, students or learners, and/or classroom practitioners.

EDT5140  Personalized Learning: Instruction and Assessment  4 QUARTER CREDITS
This course focuses on personalizing instruction in a blended environment to leverage student engagement, motivation, and achievement. Learners evaluate the application of connectivism, constructivist instructional design, problem-based/project-based learning, and Understanding by Design as well as research-based strategies intended to increase personalization and collaboration in the classroom. Finally, learners evaluate and design formative and summative assessments and analyze the data gathered from these assessments to guide improvement in personalized learning. This course requires access to an educational setting, students or learners, and/or classroom practitioners.

EDT5142  Adaptive Instruction and Assessment  4 QUARTER CREDITS
In this course, learners analyze theories of constructivism and cognitive flexibility and implement adaptive learning approaches to meet the needs of diverse learners. Further, learners apply the Universal Design framework to instructional design and evaluate adaptive learning dashboards that provide continuous assessment of mastery-based learning. Learners also analyze facilitator-driven and assessment-driven systems and evaluate the effectiveness of mastery-based learning in student needs, including those of students with disabilities, English language learners, and students who are gifted or talented. The course includes an emphasis on the purpose and impact of computer-aided instruction and assessment on student achievement in competency-based education (CBE). This course requires access to an educational setting, students or learners, and/or classroom practitioners.

EDT5144  Using Data to Personalize Instruction  4 QUARTER CREDITS
Learners in this course plan, develop, and evaluate technology-driven classroom instruction. Learners analyze assessment data used to promote student learning and to evaluate the effectiveness of technology integration in personalized instruction. Learners collect, summarize, analyze, and apply assessment data, and analyze strategies for organizing and gaining participation in grade-level or school-wide collaborative teams. The course includes a focus on ethical principles within the online learning environment and ways to protect the data privacy of students and the intellectual property of an organization. This course requires access to an educational setting, students or learners, and/or classroom practitioners.

Capstone Course Description

EDT5900  Innovation and Technology Capstone  6 QUARTER CREDITS
In this course, learners demonstrate proficiency in integrating learning and skills from required courses by completing a final project. For MS in Education Innovation and Technology learners only. This course requires access to an educational institution, students, and/or classroom practitioners. Must be taken during the learner’s final quarter. Cannot be fulfilled by transfer.
### Course Sequence

This recommended course sequence assumes learners take two courses per quarter. Some learners elect to take fewer or more based on workload and the amount of time available for graduate study.

<table>
<thead>
<tr>
<th>COURSES</th>
<th>YEAR 1</th>
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<tbody>
<tr>
<td><strong>Q1</strong></td>
<td>ED5010* Foundations of Master’s Studies in Education</td>
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| **Q2** | EDT5100* Leading Innovation and Implementing Change  
EDT5102 Integrating Technology into Data Assessment and Evaluation |
| **Q3** | EDT5104 Teacher Dispositions and Ethics in the Digital Age  
EDT5130 Understanding Competency-Based Curriculum and Instruction |
| **Q4** | EDT5150 Instructional Coaching to Improve Teaching and Learning  
EDT5152 Planning and Implementing Site-Based Initiatives |

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<tr>
<th>COURSES</th>
<th>YEAR 2</th>
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| **Q5** | EDT5126* Collaborative Learning Environments  
Elective course† |
| **Q6** | Elective course† |
| **Q7** | EDT5900 Innovation and Technology Capstone |

*Learners can potentially save time and up to $4,400 by taking Capella’s professional development courses and earning up to 12 credits toward their program through our prior learning assessment process. For more information, contact Enrollment Services.*

*This course may be taken during a summer quarter, when learners do not have access to a full classroom.

†The elective courses EDT5122 and EDT5132 may be taken during summer quarters.
Financial Aid

Capella University offers assistance to learners who qualify and would like to secure educational funding to help finance their academic program. A number of options are available, given the diverse needs and backgrounds of prospective learners. Options include:

- Federal Direct Stafford Loan Program
- Federal Direct PLUS Loan Program
- Non-federal loans through preferred lenders and financial institutions
- Capella scholarships
- External scholarships
- Veterans’ educational benefits and U.S. armed forces discounts
- Corporate and higher education alliances
- Employer tuition reimbursement

Regarding loan programs, interest rates for Stafford student loans are low compared to other types of consumer loans, and repayment can be deferred until after graduation. In compliance with federal and state laws, Capella University has established policies for all learners regarding satisfactory academic progress, which is necessary for financial aid eligibility.

Tuition and Fees

This tuition estimate is effective July 10, 2017, and is subject to change. For current pricing, visit the Capella University website at www.capella.edu.

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<th>TUITION/FEE</th>
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<tbody>
<tr>
<td>Tuition per credit</td>
<td>$424</td>
</tr>
<tr>
<td>Resource kit per quarter</td>
<td>$150</td>
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Academic Leadership

Amy Smith, PhD
Dean

Dr. Amy Smith serves as dean for the School of Education. In her 25-year career in education, she has held leadership positions in both public and private P–12 education, beginning as a high school English teacher, increasing leadership roles as department chair and principal, and eventually leading teams in building charter schools. Dr. Smith’s higher education experience began as a professor of education at Kent State University and Western Oregon University. She continued expanding her leadership as a department chair at Concordia University Chicago and a dean at the University of Phoenix. Her service includes authoring sections of the national teacher preparation standards for the National Council Teachers of English and serving as an assistant editor for the Journal of Curriculum and Pedagogy, a member of a charter school network Board of Directors, and a columnist for a trade publication where she provided soft-skills career advice for multiple magazines and audiences. Dr. Smith holds a PhD in Educational Leadership: Curriculum and Instruction from the University of Denver, an MEd in administration and supervision from National-Louis University in Chicago, an MA in secondary education from the University of Akron, and a BA in English from the University of Colorado.

Jason Mixon, EdD
Associate Dean

Dr. Mixon serves as associate dean of the School of Education. He was previously an associate professor and director of doctoral programs at the Center for Doctoral Studies in Educational Leadership at Lamar University in Texas. Prior to that position, he was a visiting professor of educational leadership and policy at the University of Texas at Tyler. In addition, he has an extensive background in public education. Dr. Mixon was a high school teacher, athletic coach, middle school assistant principal, and high school principal in Texas. As a scholar, Dr. Mixon has co-authored several books in the areas of intercultural responsiveness in English language learning, education leadership, and leadership for principals and superintendents. Additionally, he has authored or presented scholarly work on educational and interculturally responsive leadership in the role principals and superintendents play in school and district culture and community. Dr. Mixon currently serves as a board member on the National Council of Professional Educational Administrators (NCPEA) and is on the editorial review board of The Journal of Teacher Development. Dr. Mixon holds an EdD in Educational Leadership from Sam Houston State University, as well as an ME in Educational Leadership and a BS in Political Science and History from the University of Texas at Tyler.

Lori Maxfield, PhD, MEd
Faculty Chair

Dr. Lori R. Maxfield serves as faculty chair for the P–12 teaching and learning programs. As a career educator, her experience includes teaching and leadership positions in K–12 education and higher education. Before joining Capella University, she served as the Scholar in Residence at Carlow University (Pittsburgh, PA) where she facilitated the development of quality learning experiences and curriculum in STEM Education (Science, Technology, Engineering, Mathematics) by working with classroom teachers and higher education faculty. Before joining Carlow University, Dr. Maxfield worked at St. Catherine University (St. Paul, MN) in multiple roles. Among the key roles, she co-facilitated the university’s involvement as a GLOBE Partner (Global Learning and Observations to Benefit the Environment); served as the associate dean, program director for initial licensure programs, STEM minor coordinator, and social studies coordinator; and taught a variety of courses at the undergraduate and graduate levels. As a K–12 educator, Dr. Maxfield taught grades 6–8 for five years and coordinated K–12 gifted programs for two years. Dr. Maxfield holds a PhD in Educational Psychology with an area of concentration in Gifted and Talented Education from the University of Connecticut, as well as an MEd in Curriculum and Instruction and a BS in Elementary Education from the University of Nebraska-Lincoln.
Move Forward with Capella University

WORKING SCHOLARS
Capella provides an online, flexible learning environment for working adults who are also determined scholars. That connection between academic and professional work infuses the entire Capella experience—from the faculty we recruit to the course projects you complete. The theories discussed in the courseroom are designed to develop working knowledge for everyday situations.

AN ACCREDITED UNIVERSITY
Our accreditation* is an assurance to students, employers, and the public that Capella University meets established standards for quality of faculty, curriculum, and learner services. It is also an important factor in the ability to transfer credits among higher education institutions. Regional accreditation, the type held by Capella, is the most common type for major public, state, and private institutions in the United States.

VALUING YOUR KNOWLEDGE AND EXPERIENCE
Adults bring a wealth of experience and learning to their education. Capella courses are designed to bring out your perspectives just as you gain from others’ ideas. Your knowledge can also be worth time and money: An enrollment counselor can help you estimate how much of your prior learning may apply toward your Capella degree program.

*ACCREDITATION
Capella University is accredited by the Higher Learning Commission.

HIGHER LEARNING COMMISSION
https://www.hlcommission.org
800.227.4530
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