DOCTOR OF EDUCATION (ED.D.) MAJOR IN DEVELOPMENTAL EDUCATION (DEVELOPMENTAL MATHEMATICS CONCENTRATION)

The Department of Curriculum and Instruction in the College of Education at Texas State offers a Ed.D. in developmental education (DE) that produces highly-qualified program leaders and practitioners in DE programs. The Ed.D. is designed to fill the urgent need for advanced research in an emerging field that serves those who are underprepared for postsecondary education.

Mission Statement
The doctoral program in Developmental Education within the Department of Curriculum and Instruction prepares future scholars, researchers, leaders, administrators, instructors, and practitioners in the field of developmental education. Both rigorous and supportive, the program aims to advance theory, research, and practice in multiple areas of developmental education — including developmental literacy, learning support, and developmental mathematics — by actively engaging students in teaching, scholarship, and professional service. As a multidisciplinary program, the faculty, staff, and students work collaboratively across various academic disciplines, diverse communities, and geographic boundaries.

Educational Goal
Major educational objectives for the programs include the following:

- To prepare DE professionals who engage in divergent and critical thinking, are culturally competent, and are skilled in maximizing technology applications for learning and communication;
- To prepare DE professionals who understand and can respond to the nature and needs of students who enroll in DE programs; the complexities of motivation, teaching, learning, and assessment in DE settings; the cultural, political, and social systems that create inequities in educational settings; and the structure and management of DE programs;
- To prepare DE professionals with sophisticated research skills that will enable them to critically evaluate DE programs and practices and implement research agendas that will inform practice and policy;
- To prepare DE professionals who will serve as leaders in the DE profession who can engage in institutional leadership, program administration, and innovative program development and evaluation that will promote systemic change and improvement.

Advising
Advising takes three forms: the initial advisor, the program mentor, and the dissertation advisor. When students are first admitted, they are assigned an initial advisor who mentors them from entry through their first year benchmarks in the program. By the end of the first year, students formally ask a faculty member to be their program mentor who advises them from the end of their first year until their comprehensive exams. At a time no later than the completion of their comprehensive exams, students then select a dissertation advisor who is the chair of their dissertation committee, which must be formed at that time. These advising roles can be assumed by the same faculty member or different faculty members depending on students’ research interests and foci.

In their first term, students will construct a program plan with the assistance of their initial advisor. The program plan is a focused, detailed description of the doctoral student’s proposed course work, specialization, and goals for the doctoral program. The program plan will be submitted to the doctoral program plan committee for approval and suggestions. The program plan must include the following:

- goal statement that includes doctoral study goals (including specialization) and future professional goals
- professional curriculum vitae
- course work plan. This is the appropriate place for petitioning for course transfer for graduate work done previously (there is a 5-year time limit on any course work counting toward candidacy).

The student should work with their advisor for direction while completing the program plan prior to submitting it to the program plan committee. It is due to the program plan committee by November 15 in the fall term of the student’s first year of study. After the program plan committee reviews the student’s program plan, a meeting may be scheduled with the student for further review of the plan.

Application Requirements
The items listed below are required for admission consideration for applicable semesters of entry during the current academic year. Submission instructions, additional details, and changes to admission requirements for semesters other than the current academic year can be found on The Graduate College’s website (http://www.gradcollege.txstate.edu). International students should review the International Admission Documents webpage (http://mycatalog.txstate.edu/graduate/admission-documents/international/) for additional requirements.

- completed online application
- $55 nonrefundable application fee
- or
- $90 nonrefundable application fee for applications with international credentials
- baccalaureate degree from a regionally accredited university
- master’s degree from a regionally accredited university or demonstrated success in graduate-level studies or professional experience in a field relevant to developmental education
- The Developmental Education doctorate (both Ph.D. and Ed.D. tracks) requires 96 semester credit hours for students admitted with a bachelor’s degree. Students admitted with a bachelor’s degree will follow the same program of study as students admitted with a master’s degree (66 semester credit hours), but with an additional 30 semester credit hours of open electives.
- official transcripts from each institution where course credit was granted
- minimum 3.0 GPA (on a 4.0 scale) in all completed graduate course work
- resume/CV
- statement of purpose (approximately 500-1000 words) demonstrating the student’s research interest and goals as a developmental
Degree Requirements

The Doctor of Education (Ed.D.) degree with a major in Developmental Education concentration in Developmental Mathematics requires 66 semester credit hours or 96 semester credit hours for students admitted with a master's degree. Students admitted with a bachelor's degree will follow the same program of study as students admitted with a master's degree (66 semester credit hours), but with an additional 30 semester credit hours of open electives.

Course Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>DE 7301</td>
<td>Understanding Learners in Developmental Education</td>
<td>3</td>
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<tr>
<td>DE 7302</td>
<td>Policy and Politics in Developmental Education</td>
<td>3</td>
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<td>DE 7303</td>
<td>Teaching and Learning in Developmental Education</td>
<td>3</td>
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<td>DE 7305</td>
<td>Diversity in P-16 Educational Contexts</td>
<td>3</td>
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<tr>
<td>DE 7380</td>
<td>Managing Developmental Education Programs</td>
<td>3</td>
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<tr>
<td>CI 7101</td>
<td>Introduction to the Research Experience</td>
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<td>CI 7302</td>
<td>Research Methods and Measurement in Education</td>
<td>3</td>
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<tr>
<td>CI 7351</td>
<td>Beginning Quantitative Research Design and Analysis</td>
<td>3</td>
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<tr>
<td>CI 7352</td>
<td>Beginning Qualitative Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MATH 7111</td>
<td>Seminar in Teaching</td>
<td>3</td>
</tr>
<tr>
<td>MATH 7188</td>
<td>Seminar in Mathematics Education</td>
<td>3</td>
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<tr>
<td>MATH 7302</td>
<td>History of Mathematics</td>
<td>3</td>
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<tr>
<td>MATH 7306</td>
<td>Current Research in Math Education</td>
<td>3</td>
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<tr>
<td>MATH 7324</td>
<td>Curriculum Design &amp; Analysis</td>
<td>3</td>
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<tr>
<td>MATH 7328</td>
<td>Instructional Techniques &amp; Assessments</td>
<td>3</td>
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Prescribed Electives

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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>DE 7999</td>
<td>Practicum</td>
<td>3</td>
</tr>
<tr>
<td>CI 7353</td>
<td>Intermediate Quantitative Research Design and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CI 7354</td>
<td>Intermediate Qualitative Design and Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Choose 3 hours of advisor-approved electives 3

Dissertation

Choose a minimum of 12 hours from the following: 12

- DE 7199  Dissertation
- DE 7299  Dissertation
- DE 7399  Dissertation
- DE 7599  Dissertation
- DE 7699  Dissertation
- DE 7999  Dissertation

Total Hours 66

Advance to Candidacy

Application for Advance to Candidacy

Once all course work (except for dissertation course work) has been completed, the comprehensive exams have been passed, and the dissertation proposal has been successfully defended, doctoral students will apply for advancement to candidacy. Candidacy must be achieved within five (5) years of initiating program course work. No credit will be applied toward the doctoral degree for course work completed more than five (5) years before the date on which the student is advanced to candidacy. This time limit applies toward credit earned at Texas State as well as credit transferred to Texas State from other accredited institutions. Requests for a time extension must be made to the program, which in turn submits a recommendation to The Graduate College. Achieving doctoral candidacy allows the student to begin doctoral dissertation research. Candidacy forms are found here: http://www.gradcollege.txstate.edu/Fac_Resources/Forms.html.

Grade-Point Requirements for Advancement to Candidacy

To be eligible for advancement to candidacy, the student must have a minimum GPA of 3.0. No grade earned below a “B” on any graduate course may apply toward a doctorate at Texas State. Incomplete grades must be cleared through The Graduate College before a student can be approved for advancement to candidacy.
Comprehensive Exams
All students in the Doctoral Program in Developmental Education are required to pass a Comprehensive Examination at the conclusion of coursework, prior to moving into the dissertation phase of the program. The purposes of this exam are to demonstrate mastery of the coursework content and preparation for independent research. Ideally, this process will begin during students’ last semester of coursework, and will be completed before the conclusion of the semester following.

Students will discuss an overall problem or issue and focus with their adviser for initial approval. Students will then form a comprehensive exam committee that is comprised of, at least, their adviser (as Chair) and two other faculty members from the Developmental Education program. Once the committee is formed, students will complete a prospectus and arrange a prospectus meeting.

The prospectus meeting will consist of a brief oral presentation (student) and questions posed by committee members. The prospectus will be evaluated in terms of its appropriateness for the comprehensive exam and the feasibility of the proposed work. Students will either be granted approval to proceed with the exam or will be asked to revise and resubmit at the conclusion of the prospectus meeting. Once the prospectus is approved, students are cleared to begin working on the entire exam. When the exam is complete, students will distribute the finished product to the entire committee all at once and schedule an exam oral defense.

Dissertation Proposal
At a time no later than the completion of their Comprehensive Exams, students must select a dissertation advisor. After selecting their dissertation advisor, and before beginning their dissertation proposal, students will form a dissertation committee that will provide technical support for the inception, conduct, and completion of the dissertation research study and evaluate the final product. The student will undertake the research and write the dissertation under the guidance of their dissertation advisor. The dissertation proposal must be successfully defended and approved by the dean of The Graduate College before a student can be advanced to candidacy. Information about the dissertation procedures can be found in the Dissertation tab.

Students must submit the dissertation proposal and one copy of the official “Dissertation Proposal form” (available on The Graduate College website) to the dissertation advisor. After obtaining committee members’ signatures, the student must submit the dissertation proposal and dissertation proposal form to the program director for signature. The form also requires evidence of the IRB approval for any research involving human subjects. The program director will then forward the dissertation proposal and form through the department chair to the dean of The Graduate College for final approval. Final approval must be received before proceeding with the defense of the dissertation proposal. The Dissertation Proposal form may be obtained from The Graduate College website.

Defense of the Dissertation Proposal
Students must defend the dissertation proposal in a meeting that begins with a public presentation and continues with an oral examination by the dissertation committee. The examination will address the proposed dissertation topic (problem definition and scope), relevant literature, and research method. The dissertation committee must sign the “Defense of the Dissertation Proposal form” to indicate approval and then submit the form for the signature of the doctoral program director and the department chair. The approved Defense of the Dissertation Proposal form must be forwarded to the dean of The Graduate College.

The dissertation proposal must be approved and the Defense of the Dissertation Proposal form must be on file in The Graduate College before any student can advance to candidacy and begin dissertation research.

Recommendation for Advancement to Candidacy
The dissertation committee recommends the applicant for advancement to candidacy to the doctoral program director, the department chair, and the dean of The Graduate College. The dean of The Graduate College certifies the applicant for advancement to candidacy once all requirements have been met. To be eligible for admission to candidacy the student must have successfully completed the comprehensive exam, completed all course work, and successfully defended the dissertation proposal.

Dissertation Research and Writing
All doctoral students are required to complete a dissertation. The dissertation must be an original contribution to scholarship and the result of independent investigation in a significant area. Preparation of the dissertation must follow the latest edition of the *Publication Manual of the American Psychological Association*.

Dissertation Enrollment Requirements
Any time a student is receiving official guidance on the dissertation, the student must be enrolled in a dissertation course. A student must maintain continuous enrollment in dissertation hours every term from the time they advance to candidacy until the dissertation is defended and approved. If a student is receiving supervision on the dissertation during the summer or the student is graduating during the summer, the student must be enrolled in dissertation hours for the summer. All candidates for graduation must be enrolled in dissertation hours during the term in which the degree is to be conferred. Students must enroll in a minimum of 12 dissertation credit hours.

Dissertation Time Limit
Students must complete the dissertation within five (5) years of advancement to candidacy. The student’s dissertation advisor, with the student’s dissertation committee, will review the student’s progress annually.

Dissertation Advisor and dissertation committee
The dissertation committee must be composed of four approved doctoral graduate faculty members. The doctoral student must select a minimum of four committee members, one of which must be outside the program. The chair of the dissertation committee must be from the program. All committee members must hold at least associate doctoral faculty status, and chairs must hold core doctoral faculty status. To form the dissertation committee, the “Dissertation Committee Request form” must be completed and signed by the student, committee members, committee chair, doctoral program director, and the department chair and then forwarded to the dean of The Graduate College for approval and signature. The required Dissertation Committee Request form may be obtained from The Graduate College website.

Committee Changes
Any changes to the dissertation committee must be submitted for approval to the dissertation advisor, the doctoral program director, the department chair, and the dean of The Graduate College. Changes must be submitted no less than sixty (60) days before the final dissertation
defense. The “Dissertation Advisor/Committee Member Change Request form” may be obtained from The Graduate College website.

**Defense of the Dissertation**

All dissertations must meet the following requirements as judged by the student’s dissertation committee:

1. a systematic investigation of a problem,
2. informed by previous theory and research,
3. that adds to the body of knowledge in the area of investigation, and
4. is presented in a form capable of dissemination to scholars and practitioners.

Students must pass the final oral examination that covers the dissertation and the general field of the dissertation. Students must defend the dissertation in a meeting that begins with a public presentation and continues with an oral exam by the dissertation committee. Before scheduling the final oral exam, the student must have received approval of the dissertation advisor. A completed dissertation defense report must be submitted according to the schedule posted by the dean of The Graduate College and no later than ten days before the date of graduation. The student must complete all aspects of the dissertation, including successful defense and submission of the dissertation to The Graduate College, within five (5) years of advancement to candidacy.

**Approval and Submission of the Dissertation and Abstract**

The approval of the dissertation and abstract requires positive votes from the dissertation advisor and from a majority of the dissertation committee members. Once the committee has approved the dissertation, one copy of the dissertation and the signed “Committee Approval form” must be submitted to the dean of The Graduate College for final approval. Refer to the Graduate College Guide to Preparing and Submitting a Thesis or Dissertation for specific guidelines.

Doctoral level courses in Developmental Education: CI (p. 4), DE (p. 5), ENG (p. 7), MATH (p. 8), RDG (p. 12)

**Courses Offered**

**Curriculum and Instruction (CI)**

**CI 7101. Introduction to the Research Experience.**

This course is designed to introduce students to the program and to the ongoing research activities of its faculty. Emphasis is placed on identifying and coordinating opportunities for joint research and scholarship among faculty and students. Students must enroll in the course for three semesters before dissertation.

1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.

Course Attribute(s): Exclude from 3-peat Processing

Grade Mode: Standard Letter

**CI 7302. Research Methods and Measurement in Education.**

This course provides a comprehensive introduction to educational research with a focus on research design, research methods and methodology, and fundamental measurement issues in quantitative, qualitative, and mixed-methods research.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

**CI 7303. Educational and Psychological Measurement and Assessment.**

Philosophical and empirical foundations of measurement, assessment, testing, and evaluation. Topics include philosophical and mathematical foundations in research; empirical levels and measurement description; test construction; observational rating scales; measurement interpretation; social, legal, and ethical implications; item analysis/refinement for scale performance; reliability and validity evidence; and standardized and placement tests.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

**CI 7310. Teaching in College.**

Teaching strategies for teaching/instructional assistants focused on creating syllabi, adapting to diverse student populations, collaborating with colleagues and staff, implementing active learning strategies, fostering assigned reading, assessing learning, and integrating technology. This course does not earn graduate degree credit.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Course Attribute(s): Graduate Assistantship|Exclude from Graduate GPA

Grade Mode: Leveling/Assistantships

**CI 7326. Grant Development and Management.**

This course focuses on developing competitive grant proposals and understanding grant management resources. Strategies will encompass locating funding sources, evaluating proposals, developing proposals and budgets, and methods of meeting accountability requirements.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

**CI 7351. Beginning Quantitative Research Design and Analysis.**

This course introduces students to quantitative research design and analysis. Topics include descriptive statistics; sampling techniques; statistical inference, including the null hypothesis, significance tests, and confidence intervals; and causal-comparative analyses, including t-test and ANOVA. Corequisite: CI 7302 with a grade of “C” or better.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

**CI 7352. Beginning Qualitative Design and Analysis.**

This course introduces students to the qualitative paradigm. Topics include distinctive features, alternative qualitative traditions, purposeful sampling, common data collection methods, inductive analysis, the role of the researcher, and evaluation of qualitative research. Corequisite: CI 7302 with a grade of “C” or better.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

**CI 7353. Intermediate Quantitative Research Design and Analysis.**

This course focuses on intermediate quantitative research design and statistical methods of data analysis related to problems in education, psychology, sociology, and biological sciences. The general linear model based univariate and selected multivariate statistical techniques are examined including theory/purpose, logic, practical implications, and interpretation of various analytic techniques. Prerequisite: CI 7351 with a grade of “C” or better.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter
Cl 7354. Intermediate Qualitative Design and Analysis.
This course focuses on issues in design and implementation of qualitative research. Topics include influence of alternative traditions, literature in qualitative research, access to the field and ethical issues, researcher-participant relationships, purposeful sampling strategies, inductive analysis procedures, developing theory, and reporting research. Prerequisite: CI 7352 with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

Cl 7355. Mixed Methods in Research and Evaluation.
This course will cover mixed methods research designs that can be used in the evaluation of educational interventions and programs. Topics include mixed methods research designs, program evaluation models, quantitative and qualitative data analysis, and interpretation of mixed methods research articles, and writing mixed methods research proposals and evaluation reports. Prerequisite: CI 7351 and CI 7352 both with grades of "B" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

Cl 7358. Theoretical and Conceptual Frameworks in Qualitative Research.
This course is intended for those versed in current paradigmatic and epistemological states of human inquiry and presents an opportunity to design a research project and address the major issues of a research career. Prerequisite: CI 7352 and CI 7354 both with grades of "B" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

Cl 7359. Seminar in Quantitative Research.
This course is a small-group seminar that focuses on analytic strategies specific to the doctoral student's dissertation topic. Examples include structural equation modeling, hierarchical linear modeling, log-linear modeling, non-parametric analyses, factor analysis, factorial analysis of variance, and other multivariate statistical methods. Prerequisite: CI 7351 and CI 7353 both with grades of "B" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

Cl 7360. Designing Educational Research.
Students identify problems in Developmental Education, develop a strategic proposal to apply to these problems, and create an evaluation plan to assess the implementation of their proposal. Students also develop skills in critiquing research reports and in synthesizing research from Developmental Education. Prerequisite: CI 7353 or CI 7354 or CI 7355 any with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

Cl 7378. Independent Study.
Individual problems or topics will be designed and completed to emphasize selected areas of study in the Department of Curriculum and Instruction. May be repeated for additional credit at the discretion of the program coordinator.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

Cl 7386. Directed Research.
Students will participate in an authentic research experience, either by working as part of a doctoral faculty member's research team or developing an original research project.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Standard Letter

Cl 7389A. Topics in Instructional Technology.
This topic offers an in-depth study of systematic instructional design emphasizing the selection and use of appropriate media for delivering instruction to maximize student learning. Special emphasis in this topic is on the leader's role in influencing the use of technology.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

Cl 7389C. Special Topics: Race Theory in Educational Research.
This course will explore racial theories and paradigms applicable to the study of race in K-20 educational settings. Students will analyze foundational scholarship in the formation of racial theories, research methodology, key tenets of race research, and literature pertinent to current trends in educational research regarding race. (MULT).
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Multicultural Content|Topics
Grade Mode: Standard Letter

Developmental Education (DE)

Original research and writing in Developmental Education are to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled each long semester (and in summer semesters as appropriate).
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Credit/No Credit

Original research and writing in Developmental Education are to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled each long semester (and in summer semesters as appropriate).
2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Credit/No Credit

DE 7301. Understanding Learners in Developmental Education Contexts.
This course identifies the evolution, characteristics, demographics, and needs of learners in Developmental Education contexts. Emphasis is placed on understanding internal factors, including the cognitive, affective, and psychosocial needs of students, as well as on analyzing external factors, including the social, political and institutional forces that impact learners' educational experiences. (MULT).
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Multicultural Content
Grade Mode: Standard Letter
DE 7302. Policy and Politics in Developmental Education.
This course addresses the policy and politics of planning, funding, implementing, and evaluating Developmental Education programs in postsecondary education. Readings and discussions focus on current and historical issues relevant to addressing the academic needs of educationally disadvantaged students from the perspective of researchers, program directors, policy analysts, and instructors.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

DE 7303. Teaching and Learning in Developmental Education.
The course focuses on the institutional development, intellectual development, learner development, and self-development for effective teaching and learning in developmental education. Topics include instructional and learner theories, pedagogies, assessment and evaluation techniques, and best practices for instruction and intervention.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

DE 7304A. Curriculum Design in Developmental Education.
This course focuses on principles and processes of curriculum design and implementation in developmental education contexts, including examination of emerging research and issues. The course pedagogy also engages students in independent curriculum research, planning, and problem-solving.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

DE 7304B. Theory and Research of Digital Literacies.
This course focuses on understanding the complex relationships between technology, teaching, and learning in varied developmental education environments. Tools and strategies for planning, integrating, and assessing technology-supported instruction are explored within frameworks linking theory to practice.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

DE 7304C. Student Motivation and Self-Regulation.
This course focuses on research-based theories of student motivation and self-regulation and highlights practical applications of these theories for students in developmental education contexts.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Standard Letter

DE 7304D. Transformative Learning.
This course introduces students to the core principles of transformative learning. The course is a theory-driven, project-based advanced class designed to enable students to develop theoretical perspectives, engage in intensive practice, and understand the use of transformative learning for applications with postsecondary individuals, groups, and organizations.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Standard Letter

DE 7304E. Current Topics in Motivation Intervention Research.
This course focuses on analyzing, synthesizing, discussing, and applying cutting-edge research on various types of motivation interventions in education. Emphasis will be placed on theory, research, and practice in postsecondary educational settings and Developmental Education contexts.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Standard Letter

DE 7305. Diversity in P-16 Educational Contexts.
This course uses critical multicultural frameworks to trace the evolution of learners in a P-16 educational system. Students in this course examine school practices and policies in an attempt to map the educational trajectory and improve the educational experiences of P-16 students who are underrepresented and underserved. (MULT).
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Multicultural Content
Grade Mode: Standard Letter

DE 7321. The Community College.
Introduction to community college and to its roles and functions in American education. Special attention will be directed to evolution, development and patterns of organization, purposes, programs, personnel and current issues of the community college.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

DE 7322. Learning Support Centers in Postsecondary Settings.
The course explores the learning assistance movement in postsecondary settings including its history, leaders, and current research. Topics include program planning; leadership, organization, and management; human and financial resources; facilities and equipment; legal responsibilities; equal opportunity and access; diversity; ethics; campus and community relations; and assessment and evaluation.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

The course focuses on Learning Disabilities (LD) and Executive Function (EF) Disorders and their nature, prevalence, and significance in postsecondary settings. Topics include theories about the origins and nature of LD and EF, development across the lifespan, characteristics of individuals, and approaches to service, delivery, and teaching. (MULT).
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Multicultural Content
Grade Mode: Standard Letter

DE 7324. Teaching Learning Strategies and Critical Thinking in Postsecondary Contexts.
The course explores theory and pedagogy of learning strategies, problem solving, and critical thinking skills in postsecondary contexts. Topics include variables in teaching and learning, methods of assessment, and approaches to instruction.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
DE 7325. Advising, Coaching, and Mentoring Learners in Postsecondary Education.

The course will focus on theories and techniques of academic advising, coaching, and mentoring skills for learners enrolled in postsecondary education. Didactic and experiential activities will provide students enrolled in the course with opportunities to learn and practice skill development within these academic support programs.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

DE 7380. Managing Developmental Education Programs.

This course focuses on the theoretical and practical elements of management of Developmental Education programs in higher education. Readings and discussions focus generally on best practices in higher education leadership and specifically on best practices in leadership and management in Developmental Education.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter


Original research and writing in Developmental Education are to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled each long semester (and in summer semesters as appropriate).

9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.

Course Attribute(s): Exclude from 3-peat Processing

Grade Mode: Credit/No Credit


Original research and writing in Developmental Education are to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled each long semester (and in summer semesters as appropriate).

5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.

Course Attribute(s): Exclude from 3-peat Processing

Grade Mode: Credit/No Credit


Original research and writing in Developmental Education are to be accomplished under direct supervision of the dissertation chair. While conducting research and writing, students must be continuously enrolled each long semester (and in summer semesters as appropriate).

6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.

Course Attribute(s): Exclude from 3-peat Processing

Grade Mode: Credit/No Credit

English (ENG)

ENG 7300. Language Problems in a Multicultural Environment.

An introduction to the study of multicultural language and linguistics with descriptive, psychological, social, and semantic emphases.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

ENG 7314. Specializations in Professional and Technical Communication Topics.

Provides theoretical and practical information for specialized types of technical and professional communication.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

ENG 7316. Foundations in Rhetoric and Composition.

A course providing students with theoretical, pedagogical, and/or methodological foundations in the field of rhetoric and composition. Emphases vary but may include Contemporary Composition Pedagogy, Basic Writing Theory and Practice, and Writing Assessment. Repeatable with different emphases for up to nine hours of English credit.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

ENG 7317. Specializations in Rhetoric and Composition.

A course providing theoretical, pedagogical, methodological, and/or administrative grounding in specialized areas of rhetoric and composition. Emphases vary but may include Writing Across the Curriculum, Service Learning, Writing Center Theory and Practice, Computers and Writing, Literacy. Repeatable with different emphases for up to nine hours of English credit.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

ENG 7326. Contemporary Composition Theory.

Introduces students to the history of writing instruction in the university and to the theories of writing and composing that inform contemporary composition studies and the teaching of writing.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter

ENG 7383. Studies in Rhetorical Theory.

An introduction to classical and rhetorical theory in various areas of English studies. Recent emphases include Teaching of Composition and Technical Communication. Repeatable with different emphases for up to nine hours of English credit.

3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.

Grade Mode: Standard Letter
Mathematics (MATH)

MATH 7111. Seminar in Teaching.
Seminar on individual study projects concerned with selected problems in
the teaching of mathematics. This course does not earn graduate degree
credit.
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Course Attribute(s): Graduate Assistantship
Exclude from Graduate GPA
Grade Mode: Leveling/Assistantships

MATH 7188. Seminar in Mathematics Education.
Students are required to attend weekly research seminars in
Mathematics Education and to give at least one research presentation in
the seminar during the semester. This course is repeatable for credit.
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7199A. Dissertation.
Original research and writing in Mathematics Education to be
accomplished under direct supervision of the dissertation advisor.
While conducting dissertation research and writing, students must be
continuously enrolled each long semester.
1 Credit Hour. 1 Lecture Contact Hour. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

MATH 7299A. Dissertation.
This course represents a Mathematics Education student’s dissertation
enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted
for binding. Prerequisite: completion of the core and required
concentration courses, or approval of student’s dissertation advisor.
2 Credit Hours. 2 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

MATH 7301. Studies in Mathematics.
This course provides basic foundations in Mathematics for students
entering the doctoral program in Mathematics Education. This course
may be repeated. This course does not earn graduate degree credit.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from Graduate GPA
Leveling/Assistantships
Grade Mode: Leveling/Assistantships

MATH 7302. History of Mathematics.
A study of the development of mathematics and of the accomplishments
of men and women who contributed to its progress.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7303. Analysis I.
This course covers foundations of modern analysis. Topics include:
sequences, LimSup, LimInf, Sigma Algebras of sets that include open and
closed sets, sequences of functions, pointwise and uniform convergence,
lower and upper semi-continuity, Borel sets, outer measure, and Lebesgue
measure. Prerequisite: MATH 4315.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7306. Current Research in Math Education.
This course surveys the various current social, political, and economic
trends in local, state, national, and international settings that are related
to research in Mathematics Education.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7307. Algebra I.
Applications of Algebra and topics in modern algebra, including
permutation groups, symmetry groups, Sylow theorems, and select topics
from Ring Theory. Prerequisite: MATH 4307.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7309. Topology I.
A course in point-set topology emphasizing topological spaces,
continuous functions, connectedness, compactness, countability,
separability, metrizability, CW complexes, simplicial complexes, nerves,
and dimension theory. Prerequisite: MATH 4330.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7313. Analysis II.
This course covers the theory of integration with special emphasis
on Lebesgue integrals. Topics include: Lebesgue integral, Bounded
Convergence theorem, differentiation and integration, absolute continuity,
and Lp spaces. Prerequisite: Math 7303.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7317. Algebra II.
A study of the important algebraic structures of rings and fields. Topics
covered include rings, ideals, modules, polynomial rings, Euclidean
algorithm, finite fields, and field extensions. Topics also include an
introduction to Galois Theory with an emphasis on the geometric
applications. Prerequisite: MATH 7307.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7319. Topology II: Algebraic Topology.
This course covers the fundamental concepts and tools of algebraic
topology. Topics include the fundamental group, covering spaces,
homotopy type, the higher homotopy groups, singular homology theory,
and the computation of homology groups via exact sequences and
applications. Prerequisite: MATH 7307 and MATH 7309.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7321. Graph Theory.
Topics in this course include trees, connectivity of graphs, Eulerian
graphs, Hamiltonian graphs, planar graphs, graph coloring, matchings,
factorizations, digraphs, networks, and network flow problems.
Prerequisite: MATH 3398.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
MATH 7324. Curriculum Design & Analysis.
This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques that are related to curriculum design in Mathematics Education for grade levels P-16.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7325. Statistics 1.
A study of the mathematical and probabilistic underpinnings of the techniques used in statistical inference. Topics covered include sampling, sampling distributions, confidence intervals, and hypothesis testing with an emphasis on both simulations and derivations. Prerequisite: Math 2321 and Math 3305.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7328. Instructional Techniques & Assessments.
This course examines, analyzes, and evaluates the various concepts, topics, methods, and techniques of instruction in Mathematics Education and the related assessment procedures for each for grade levels P-20.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7331. Combinatorics.
This course is a study of fundamental principles of combinatorics. Topics include: permutations and combinations, the Pigeonhole principle, the principle of inclusion-exclusion, binomial and multinomial theorems, special counting sequences, partitions, posets, extremal set theory, generating functions, recurrence relations, and the Polya theory of counting. Prerequisite: MATH 3398.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7335. Statistics II: Linear Modeling.
A study of the formulation and statistical methodologies for fitting linear models. Topics include the general linear hypothesis, least-squares estimation, Gauss-Markov theorem, assessment of model fit, effects of departures from assumptions, model design, and criteria for selection of optimal regression models. Prerequisite: MATH 3377 and MATH 7325.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7346. Quantitative Research Analysis in Mathematics Education.
This course surveys the various research techniques used in quantitative analysis for mathematics education and covers topics such as experimental design, statistical analysis, and use of appropriate design methodologies to achieve the strongest possible evidence to support or refute a knowledge claim. Prerequisite: MATH 7306 and MATH 7325.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7354. Advanced Qualitative Research.
This course encompasses the techniques and tools needed for the development, investigation, and demonstration of competence in conducting qualitative research in mathematics education. Principles of qualitative data analysis are a significant focus of the course, with particular attention given to specific methods used to code and analyze data. Prerequisite: ED 7352 with a grade of "B" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing
Grade Mode: Standard Letter

MATH 7356A. Advanced Quantitative Research.
This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in quantitative research. Prerequisite: MATH 7346.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7356B. Advanced Qualitative Research.
This course encompasses investigation, development, and demonstration of competence, design, and execution for mathematics education problems in qualitative research. Prerequisite: ED 7352 or CI 7352.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

MATH 7356C. Action Research in Mathematics Education.
This course encompasses the techniques and tools needed for the development, investigation, and demonstration of competence in quantitative research. Prerequisites: MATH 7346 or ED 7352.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7361. Seminar in Advanced Mathematics.
Material in course will vary with the interest of students and faculty. A detailed study of subject matter may be chosen from advanced areas of analysis; algebra; topology and geometry; applied mathematics; and probability and statistics. This course is repeatable for credit when subject matter varies.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7366A. Teaching Post-Secondary Students (Developmental Math, Service Courses, and Majors).
This course examines how to develop and teach post-secondary students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisites: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter
MATH 7366B. Teaching K-12 Students (Elementary, Middle School, and High School).
This course examines how to develop and teach K-12 students. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7366C. Teaching Teachers (In-Service; Pre-Service).
This course examines how to prepare teachers of mathematics. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models. Prerequisite: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7366D. Teaching Specialized Content.
This course will be an in-depth study of a specialized content area in mathematics with an emphasis on teaching. The specific content area will vary by instructor. Examples include Euclidean Simplex Geometry and Discrete Probability Spaces with Implications for Public School Curriculum.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7366E. Developmental Mathematics Curriculum.
This course surveys the research, development, and evaluation of the scope and sequence of developmental mathematics curriculum. The course references the recommendations of government agencies and professional organizations and allows for the investigation of research-based models.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing Topics
Grade Mode: Standard Letter

MATH 7366F. Research in Undergraduate Mathematics Education I.
Students will develop the requisite knowledge to become a good consumer of Research in Undergraduate Mathematics Education (RUME) research. The course will cover the theoretical underpinnings of current and historic RUME research. Students will develop the knowledge to understand relevant theoretical stances and the role they play in research. Prerequisite: Math 7306 or permission from the instructor.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing Topics
Grade Mode: Standard Letter

MATH 7366G. Research in Undergraduate Mathematics Education II.
In this course, students will develop necessary knowledge to design/ conduct RUME research via a topic-driven look at current RUME research. Core topics include proof, analysis/calculus, abstract algebra, linear algebra, and differential equations. Students will develop a depth of knowledge related to these topics and engage in research design and development. Prerequisite: MATH7306 and MATH7366F.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing Topics
Grade Mode: Standard Letter
This course introduces fundamental concepts in logic, Boolean algebra, and binomial coefficients; and applications in different fields such as complexity of algorithms and network theory. Prerequisites: MATH 2472 and MATH 4307, all with a grade of "C" or better, or with departmental approval.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7371H. Combinatorial Networks.
Combinatorial Networks is an area of study of certain types of networks using combinatorial methods extensively. This course introduces fundamental basics as well as the latest development in this area of research. Prerequisite: MATH 5307/7307 with a grade of "C" or higher.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7375C. Time Series Analysis.
A study of the theory of time-dependent data. The analysis includes modeling, estimation, and testing; alternating between the time domain; using autoregressive and moving average models and the frequency domain; and using spectral analysis. Prerequisite: MATH 7335.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7375D. Advanced Linear Modeling.
The course provides an extension of regression methodology to more general settings where standard assumptions for ordinary least squares are violated. Topics include generalized least squares, robust regression, bootstrap, regression in the presence of autocorrelated errors, generalized linear models, and logistic and Poisson regression. Prerequisite: MATH 7335.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7378A. Problem Solving, Reasoning, and Proof.
A study of the fundamental concepts of problem solving, logic, set theory, and mathematical proof and applications of these concepts in mathematics curriculum for grades P-20. Prerequisite: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7378B. Connecting and Communicating Math.
This course examines one of the basic principles involved in mathematics education: Connecting and Communicating Mathematics. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7378C. Representing Fundamental Math Ideas (Function, Data Analysis, and Enumeration).
This course examines the basic principles involved in mathematics education. The process of representing fundamental mathematical ideas will be reviewed, researched, and discussed. Prerequisite: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7378D. Math Technologies.
This course examines the basic principles involved in mathematics education: Technology. This fundamental theme will be reviewed, researched, and discussed. Prerequisite: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7378E. Developmental Mathematics Perspectives.
This course examines developmental mathematics-specific strands including technological course support and placement tools/decisions. Issues related to the first mathematics core course required of undergraduates will also be addressed.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Topics
Grade Mode: Standard Letter

MATH 7378F. Research on Mathematical Problem Solving in Secondary Schools.
In this course a careful study is made of elementary techniques for problem solving in a variety of domains, including algebra, number theory, combinatorics, geometry, and logic puzzles. Students will learn these techniques by actually working on a collection of problems in each of these areas. Students will read and examine research about various aspects of problem solving and research in math education that includes both teacher training and student learning.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing Topics
Grade Mode: Standard Letter

MATH 7378G. Discourse Processes, Traditions, and Analysis in Mathematics Education.
Discourse and discourse analysis have been used to answer research questions across disciplines throughout the humanities and social sciences. This course will focus on theory and methods for the analysis of discourse in mathematical settings. We will learn how different approaches to discourse are used to understand mathematics learning. Prerequisite: MATH 7306.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing Topics
Grade Mode: Standard Letter
MATH 7378H. Equity in Mathematics Education.
Equity in Mathematics Education is a course examining research on equity issues in mathematics education. These equity issues will range from race, culture, class, and gender as they relate to the teaching, learning, and schooling of mathematics education. We will look at how equity is framed within the field of mathematics education, what has been addressed, and what has not been conceptualized. The course will help students understand the literature in the field, critique the extant research literature, design research, and consider important facets of teaching for various student groups. Prerequisite: MATH 7306 with a grade of "C" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

MATH 7385. Independent Study in Mathematics.
Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of mathematics. Topics vary according to student's needs and demands. Repeatable with different emphasis.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7386. Independent Study in Mathematics Education.
Student will work directly with a faculty member and develop in-depth knowledge in a specific topic area of Mathematics Education. Topics vary according to student's needs and demands. Repeatable with different emphasis.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7389. Internship.
Students will work under the supervision of a faculty member to gain practical knowledge in Mathematics Education. Student experience can come from industry, government agencies, or other sources but must directly apply to furthering knowledge of mathematics education or its application.
3 Credit Hours. 0 Lecture Contact Hours. 10 Lab Contact Hours.
Grade Mode: Standard Letter

MATH 7396. Mathematics Education Research Seminar.
Collaborative research projects with faculty through identifying an educational issue, reviewing literature, creating a research question, designing a methodology, analyzing data, drawing conclusions, implications, and creating a draft of a publishable paper. Prerequisite: MATH 7356, and ED 7352 or MATH 7346, all with a grade of "B" or better.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

MATH 7399A. Dissertation.
This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

MATH 7599A. Dissertation.
This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor.
5 Credit Hours. 5 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

MATH 7699A. Dissertation.
This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor.
6 Credit Hours. 6 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

MATH 7999A. Dissertation.
This course represents a Mathematics Education student's dissertation enrollments. The course can be repeated as necessary. The dissertation credit (18 hours) will not be awarded until the dissertation is submitted for binding. Prerequisite: completion of the core and required concentration courses, or approval of student's dissertation advisor.
9 Credit Hours. 9 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Credit/No Credit

Reading (RDG)

RDG 7301. Theory and Research of Literacy.
This course examines the current theories and basic research of literacy development from psychological, cultural, linguistic, educational, and epistemological frameworks.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

RDG 7302. Theory and Research of College Basic Literacy.
This course examines basic literacy needs and instructional strategies for students within postsecondary institutions. Topics include comparison of basic and academic literacy, research and theory relevant to literacy development in college contexts, analyses of historical and current curricular approaches, and evaluation of instructional strategies and materials.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

RDG 7303. Theory and Research of College Academic Literacy.
This course examines academic literacy needs and instructional strategies for students in college. Topics include comparisons of academic, workplace, and new literacies and instructional strategies and materials for developing vocabulary, comprehension, and critical and strategic reading in multiple sources of information.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter
RDG 7304. Theory and Research of Literacy Instruction for Culturally and Linguistically Diverse Readers.
This course examines the historical and contemporary understandings of language acquisition and instruction; foundational knowledge of literacy research and cultural and linguistic difference; instructional practices, including culturally responsive instruction, linguistic differences, and creating supportive literacy environments; curriculum, assessment, and evaluation; and critical literacy perspectives. (MULT).
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Multicultural Content
Grade Mode: Standard Letter

RDG 7305. Theory and Research of College Literacy Assessment.
This course reviews literacy assessment theory, research, policy, and practice in postsecondary contexts. Topics include accountability, standards-based curricula, cultural and linguistic effects, assessment-driven instruction, reliability and validity, interpretation, and different types of instruments (high-stakes, placement, diagnostic, classroom tests, and qualitative instruments).
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

RDG 7306. Literacy Research Seminar.
This course explores research and policy papers in literacy and literacy education, examines methodology and conclusions, and considers additional research questions.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

RDG 7307D. Multimodal Critical Discourse Studies.
This course introduces students to multimodal critical discourse analysis as both a theoretical framework stemming from multimodal semiotics and a set of analytic tools for uncovering dominant ideologies in print language and visual representations. Through a survey of critical discourse analysis approaches and methods including transitivity analysis, deixis, multimodal metonymy and metaphor analysis, and visual analysis, students will examine underlying assumptions perpetuated by representations of developmental education from external policy-driving organizations. Additionally, students will explore the potential for developmental educators to harness multimodal representations of their students and practice in order to reclaim the narrative of developmental education.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

RDG 7307E. Theory, Research, and Practice of Disciplinary Literacies.
This course examines core principles of disciplinary literacies. Students will examine the theory, research, and pedagogical practices of literacies across the disciplines with an emphasis on understanding the potential for postsecondary learners and Developmental Education practices.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

RDG 7307F. Curriculum Design in Developmental Education.
This course focuses on principles and processes of curriculum design and implementation in developmental education contexts, including examination of emerging research and issues. The course pedagogy also engages students in independent curriculum research, planning, and problem-solving.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Course Attribute(s): Exclude from 3-peat Processing|Topics
Grade Mode: Standard Letter

RDG 7307G. Theory and Research of Postsecondary Integrated Reading and Writing.
This course examines the theory, research, and practice of an integrated reading and writing approach to postsecondary literacy instruction.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

RDG 7371. Theory and Research of Postsecondary Integrated Reading and Writing.
This course examines the theory, research, and practice of an integrated reading and writing approach to postsecondary Integrated Reading and Writing.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

RDG 7372. Theory and Research of New Literacies Studies in Developmental Education.
This course focuses on the theory and research of New Literacies Studies, which affects instructional practice in postsecondary Developmental Education. It includes an examination of diverse theories and models of multiple digital technology literacies necessary for communicating within the academic and workplace communities of the 21st century.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter

RDG 7373. Community Literacies.
This course focuses on exploring, understanding, refining, and reflecting on literacy as social practices within a community that informs effective curriculum and instruction for K-16 school settings, adult literacy programs, and informal environments. Students will explore ethnographic research as a means to inform instruction and complete a service learning project.
3 Credit Hours. 3 Lecture Contact Hours. 0 Lab Contact Hours.
Grade Mode: Standard Letter