



MATHEMATICS, GRADES 9-12 – POST-BACCALAUREATE

EDUCATOR PREPARATION PROGRAM NAME
DRURY UNIVERSITY

EDUCATOR PREPARATION PROGRAM CODE
603541

INSTRUCTIONS

Please complete Educator Preparation Program (EPP) Name & EPP Code above.

Certification Requirements:

- Course Number – List the course number(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- Course Title – List the course title(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- Semester Hours – List the number of semester hours for each specific section. It is possible to use decimals (to the nearest tenth) to indicate partial use of a course to meet a requirement. The total number of semester hours must meet or exceed the minimum required number of semester hours.

Email the completed cover sheet, curriculum matrix, and advising/program information to DESE.MoSPETransition@dese.mo.gov on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573-751-1668 or DESE.MoSPETransition@dese.mo.gov

A. Professional Requirements (Minimum of 26 semester hours)

1. Content Planning and Delivery

	Course Number	Course Title	Semester Hours	
a. Curriculum and Instructional Planning	EDUC 200 or SCI 621	Technology in the Classroom Educational Technology	1 1	
	EDUC 304 or EDUC 619 or EDUC 638	Teaching in Diverse Classrooms Teaching in Diverse Classrooms w/Field Experience Teaching and Learning in Diverse Classrooms	.5 1 1	
	EDUC 385	Secondary School Curriculum	1.5	
	EDUC 448 or SCI 622	Methods of Teaching Secondary Mathematics Improvement of K-12 Math Instruction	1 1	
	b. Instructional Strategies and Techniques in Content Area Specialty	EDUC 308	Secondary Area Content Literacy	3
		EDUC 385	Secondary School Curriculum	.5
EDUC 448 or SCI 622		Methods of Teaching Secondary Mathematics Improvement of K-12 Math Instruction	.5 .5	
c. Assessment, Student Data, and Data-Based Decision-Making	EDUC 302 or EDUC 605	Educational Psychology & Assessment Advanced Educational Psychology & Assessment	1 1	
	EDUC 385	Secondary School Curriculum	.5	
d. Strategies for Content Literacy	EDUC 331 or EDUC 632	Content Area Literacy Literacy Instruction in the Content Area	2 2	
	e. Critical Thinking and Problem Solving	EDUC 205 or EDUC 621 Or EDUC 203 or SS 624	Diversity & Social Justice in Education Social Justice & Diversity in Education The American Classroom Home, School, & Community	.5 .5 .5 .5
f. English Language Learning		EDUC 205 or EDUC 621 Or EDUC 203 or SS 624	Diversity & Social Justice in Education Social Justice & Diversity in Education The American Classroom Home, School, & Community	.5 .5 .5 .5
		EDUC 304 or EDUC 619 or	Teaching in Diverse Classrooms Teaching in Diverse Classrooms w/Field Experience	.5 .5

	EDUC 638	Teaching and Learning in Diverse Classrooms	.5
	EDUC 331 or EDUC 632	Content Area Literacy Literacy Instruction in the Content Area	1 1
	EDUC 340 or EDUC 606	Education of the Exceptional Child Psychology of the Exceptional Child	.5 .5
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDUC 207 or EDUC 607	Psychology of Human Growth & Development Psychology of Human Growth & Development	3 3
b. Psychology/Education of the Exceptional Child	EDUC 340 or EDUC 606	Education of the Exceptional Child Psychology of the Exceptional Child	2.5 2.5
c. Differentiated Learning	EDUC 385 EDUC 448 or SCI 622	Secondary School Curriculum Methods of Teaching Secondary Mathematics Improvement of K-12 Math Instruction	.5 .5 .5
d. Classroom Management	EDUC 361 or EDUC 608	Collaborative Classroom Environments Classroom Management	3 3
e. Cultural Diversity	EDUC 205 or EDUC 621 Or EDUC 203 or SS 624 EDUC 304 or EDUC 619 or EDUC 638	Diversity & Social Justice in Education Social Justice & Diversity in Education The American Classroom Home, School, & Community Teaching in Diverse Classrooms Teaching in Diverse Classrooms w/Field Experience Teaching and Learning in Diverse Classrooms	1 1 1 1 .5 .5 .5
f. Educational Psychology	EDUC 302 or EDUC 605	Educational Psychology & Assessment Advanced Ed Psychology & Assessment	2 2
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDUC 304 or EDUC 619 or EDUC 638	Teaching in Diverse Classrooms Teaching in Diverse Classrooms w/Field Experience Teaching and Learning in Diverse Classrooms	.5 1 1
b. Legal/Ethical Aspects of Teaching	EDUC 200 or SCI 621 EDUC 205 or EDUC 621 Or EDUC 203 or SS 624	Technology in the Classroom Educational Technology Diversity & Social Justice in Education Social Justice & Diversity in Education The American Classroom Home, School, & Community	1 1 1 1 1 1
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDUC 331 or EDUC 632	Content Area Literacy Literacy Instruction in the Content Area	3 3
b. Instructional Interventions for Students with Reading Deficits	EDUC 308	Secondary Content Area Literacy	3
Professional Requirements - Total Semester Hours			37-38
B. Field and Clinical Experiences (Minimum of ten semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	EDUC 201 or EDUC 208	Teacher Aide I or Introductory Practicum	1 1

2.	Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDUC 303 or EDUC 619	Secondary Education Field Experience I Teaching in Diverse Classrooms w/Field Experience	1 3
3.	Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDUC 478	Student Teaching on the Secondary School Level	10
Field and Clinical Experiences - Total Semester Hours				12-14
C. Mathematics Content Knowledge Area (Minimum of 36 semester hours)				
		Course Number	Course Title	Semester Hours
1.	Calculus and Analytical Geometry (nine semester hours)	MATH 231 MATH 232 MATH 233	Calculus I Calculus II Calculus III	4 4 1
2.	Algebraic Structures (three semester hours)	MATH 301	Abstract Algebra	3
3.	Geometry (three semester hours)	MATH 330	Geometry	3
4.	Computer Science (three semester hours)	CSCI 251	Introduction to Computer Science	4
5.	Electives from the above coursework (six semester hours)	MATH 100 MATH 109 MATH 110 MATH 211 MATH 230 MATH 236 MATH 234 MATH 290 MATH 366 MATH 390 MATH 490 CSCI 277 CSCI 340	Intermediate Algebra College Algebra Trigonometry Precalculus Business Calculus Honors Calculus Introduction to Proofs Selected Topics Differential Equations Selected Topics Selected Topics Web and Mobile Application Development Numerical Analysis	3 3 3 3 3 4 3 1-3 3 1-3 1-3 3 3
6.	Additional Mathematics coursework – Minimum of 12 semester hours to include at least three of the following areas of Mathematics:			
a.	History of Mathematics (three semester hours)			
b.	Structure of the Real Number System (three semester hours)	MATH 421 MATH 432	Real Variables Complex Variables	3 3
c.	Number Theory (three semester hours)			
d.	Completion of Calculus Sequence (three semester hours)	MATH 233	Calculus III	3
e.	Probability and Statistics (three semester hours)	MATH 227 MATH 326 MATH 327	Introduction to Statistics Probability Theory Mathematical Statistics	3 3 3
f.	Computer Science (three semester hours)			
g.	Linear Algebra (three semester hours)	MATH 235	Linear Algebra	3
Content Knowledge Area - Total Semester Hours				37

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