



MATHEMATICS, GRADES 9-12

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	Technology in the Classroom	1
	EDUC 304 or EDUC 638	Teaching in Diverse Classrooms Teaching and Learning in Diverse Classrooms	.5 .5
	EDUC 385 EDUC 448	Secondary School Curriculum Methods of Teaching Secondary Mathematics	1.5 1
b. Instructional Strategies and Techniques in Content Area Specialty	EDUC 308 EDUC 385 EDUC 448	Secondary Content Area Literacy Secondary School Curriculum Methods of Teaching Secondary Mathematics	3 .5 .5
	EDUC 302 EDUC 385	Educational Psychology & Assessment Secondary School Curriculum	1 .5
d. Strategies for Content Literacy	EDUC 331 or EDUC 632	Content Area Literacy Literacy Instruction in the Content Area	2 2
	EDUC 205 or EDUC 203	Diversity & Social Justice in Education The American Classroom	.5 .5
f. English Language Learning	EDUC 205 or EDUC 203	Diversity & Social Justice in Education The American Classroom	.5 .5
	EDUC 304 or EDUC 638	Teaching in Diverse Classrooms Teaching and Learning in Diverse Classrooms	.5 .5
	EDUC 331 or EDUC 632	Content Area Literacy Literacy Instruction in the Content Area	1 1
	EDUC 340	Education of the Exceptional Child	.5

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDUC 207	Psychology of Human Growth & Development	3
b. Psychology/Education of the Exceptional Child	EDUC 340	Education of the Exceptional Child	2.5
c. Differentiated Learning	EDUC 385 EDUC 448	Secondary School Curriculum Methods of Teaching Secondary Mathematics	.5 .5
	EDUC 361 or EDUC 608	Collaborative Classroom Environments Classroom Management for Teachers	3 3

e. Cultural Diversity	EDUC 205 or EDUC 203	Diversity & Social Justice in Education The American Classroom	1 1
	EDUC 304 or EDUC 638	Teaching in Diverse Classrooms Teaching and Learning in Diverse Classrooms	.5 .5
f. Educational Psychology	EDUC 302	Educational Psychology & Assessment	2
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDUC 304 or EDUC 638	Teaching in Diverse Classrooms Teaching and Learning in Diverse Classrooms	.5 .5
b. Legal/Ethical Aspects of Teaching	EDUC 200	Technology in the Classroom	1
	EDUC 205 or EDUC 203	Diversity & Social Justice in Education The American Classroom	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
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	Secondary Education Field Experience I	1
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
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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