



GENERAL SCIENCE, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME – COLUMBIA COLLEGE

EDUCATOR PREPARATION PROGRAM CODE - 515712

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 300 EDUC 365	Techniques of Teaching Teaching Middle School and Secondary Science	.75 1.5
b. Instructional Strategies and Techniques in Content Area Specialty	EDUC 300 EDUC 365	Techniques of Teaching Teaching Middle School and Secondary Science	.75 1.5
c. Assessment, Student Data, and Data-Based Decision-Making	EDUC 322	Educational Measurement and Assessment	3
d. Strategies for Content Literacy	EDUC 338	Content Reading and Writing	0
e. Critical Thinking and Problem Solving	EDUC 300 EDUC 375	Techniques of Teaching Advanced Content Methods	.75 1
f. English Language Learning	EDUC 198 or EDUC 400	Field Experience I or Senior Seminar	0

2. Individual Student Needs

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDUC 391 and 230 or EDUC 392 and 230 or EDUC 396	Child Psychology and Educational Psychology or Adolescent Psychology and Educational Psychology or Child and Adolescent Development	3
b. Psychology/Education of the Exceptional Child	EDUC 390	Education and Psychology of the Exceptional Child	0
c. Differentiated Learning	EDUC 375 EDUC 390	Advanced Content Methods Education and Psychology of the Exceptional Child	1 0
d. Classroom Management	EDUC 311	Classroom and Behavior Management Techniques	1.5
e. Cultural Diversity	SOCI 270	Minority Cultures and Relations	3
f. Educational Psychology	EDUC 230	Educational Psychology	3

3. Schools and the Teaching Profession

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDUC 100 EDUC 390	Introduction to Education Education and Psychology of the Exceptional Child	1.5 1.5
b. Legal/Ethical Aspects of Teaching	EDUC 200	Law, Ethics, and Education	3

4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDUC 338	Content Reading and Writing	3
b. Instructional Interventions for Students with Reading Deficits	EDUC 376	Adolescent Literacy	3
Professional Requirements - Total Semester Hours			34.25
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 100	Introduction to Education	1.5
	EDUC 198	Field Experience I	1
	EDUC 298	Field Experience II	1
	EDUC 300	Techniques of Teaching	.75
	EDUC 311	Classroom and Behavior Management Techniques	1.5
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDUC 338	Content Reading and Writing	0
	EDUC 365	Teaching Middle School and Secondary Science	0
	EDUC 375	Advanced Content Methods	1
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDUC 422	Student Teaching in the Secondary School	12
Field and Clinical Experiences - Total Semester Hours			18.75
C. General Science Content Knowledge Area (Minimum of 35 semester hours)			
	Course Number	Course Title	Semester Hours
1. History/Philosophy of Science and Technology (three semester hours)	HIST/PHIL 303	History and Philosophy of Modern Science	3
2. Science Coursework – Minimum of 32 semester hours which must include:			
a. Chemistry	CHEM 109 or CHEM 110 CHEM 110L	Chemistry for Biological and Health-Related Sciences or Chemistry I Introductory Chemistry Laboratory	3 2
b. Biology	BIOL 110 BIOL 110L	Principles of Biology I Principles of Biology Laboratory	3 2
c. Physics	PHYS 111 PHYS 111L	College Physics I Physics I Laboratory	3 2
d. Earth Science	GEOL 110 GEOL 110L	Introduction to Physical Geology Introduction to Physical Geology Laboratory	3 2
e. Astronomy	ASTR 108	Introduction to Astronomy	3
f. Environmental Science	ENVS 115 ENVS 115L	Introduction to Environmental Science Introduction to Environmental Science Laboratory	3 2

