

MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION OFFICE OF EDUCATOR QUALITY – EDUCATOR PREPARATION

CHEMISTRY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME
Missouri Baptist University

EDUCATOR PREPARATION PROGRAM CODE

Decision Making

041538

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 grouplisted.
- 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.	Co	ntent Planning and Delivery			
			Course Number	Course Title	Semester Hours
	a.	Curriculum and Instructional Planning	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
	b.	Instructional Strategies and Techniques in Content Area Specialty	EDMS 483/583	Teaching Science for Middle/Secondary: Seminar and Field Experience	3
	C.	Assessment, Student Data, and Data-Based Decision-Making	ECTA 323	Curriculum, Assessment, and Data-based Decision Making	1
	d.	Strategies for Content Literacy	EDRD 423/523	Integration of Literacy in the Content Areas	*Hours included below in 4a
	e.	Critical Thinking and Problem Solving	EDUC 201	Professional Growth & Folio Development I	1
	•	onload rimining and riversing	EDUC 200	Continuing Portfolio Development for Teacher Candidates	0
			EDUC 303	Methods of Teaching and Differentiated Instruction	1
			EDUC 373 OR EDUC 573	Technology and Instructional Media OR Applications of Technology in Teaching and Learning	3
	f.	English Language Learning	EDUC 203	Teaching in a Diverse Society	1
			EDRD 423/523	Integration of Literacy in the Content Areas Students transferring in a course for EDRD 423/523 which does not include a field experience working with English language learners must complete EDCL 420/520 Field Experience with English Language Learners	*Hours included below in 4a
2.	Ind	ividual Student Needs			
	IIIG	Madai Otadont Noodo	Course Number	Course Title	Semester Hours
	a.	Psychological Development of the Child and Adolescent	PSYC 313 OR PSYC 553	Human Growth and Development OR Advanced Human Development	3
			EDPS 383 EDPS 453/553	Psychology of Teaching and Learning The Exceptional Child	1 1
	b.	Psychology/Education of the Exceptional Child	EDTR 413/513 EDPS 453/553	Trauma Informed Classroom The Exceptional Child	1 2
	C.	Differentiated Learning	EDUC 303	Methods of Teaching and Differentiated Instruction	2
	d.	Classroom Management	ETOP 423/523 EDTR 413/513	Classroom and Behavior Management Trauma Informed Classroom	2 1
	e.	Cultural Diversity	EDUC 203	Teaching in a Diverse Society	2
	f.	Educational Psychology	EDPS 383	Psychology of Teaching and Learning	1
3.	Scl	nools and the Teaching Profession		, , , , ,	
			Course Number	Course Title	Semester Hours
	a.	Consultation and Collaboration	ECTA 323	Curriculum, Assessment, and Data-based	1

		EDPS 383	Psychology of Teaching and Learning	0.5
		EDTR 413/513	Trauma Informed Classroom	1
		EDUC 210 AND 410/510	Teaching Field Experience I and II Seminar	0
		EDUC 401	Professional Growth and Folio Development II	1
		ETOP 423/523	Classroom and Behavior Management	0.5
	b. Legal/Ethical Aspects of Teaching	EDPS 383	Psychology of Teaching and Learning	0.5
	3	EDUC 410/510	Teaching Field Experience II Seminar	0
		ETOP 423/523	Classroom and Behavior Management	0.5
4.	Secondary Literacy (Minimum of 6 semester)	hours)		
		Course Number	Course Title	Semester Hours
	a. Reading and Writing in the Content Area	EDRD 423/523	Integration of Literacy in the Content Areas	3
	b. Instructional Interventions for Students with Reading Deficits	EDRD 463/563	Reading and Writing Strategies for Middle/Secondary Content Areas	3
		Professiona	al Requirements - Total Semester Hours	38
Fiel	al and Olivinal Francisco - (Minimum of 40		al Requirements - Total Semester Hours	38
. Fiel	d and Clinical Experiences (Minimum of 10		Al Requirements - Total Semester Hours	
. Fiel		semester hours) Course Number	Course Title	38 Semester Hours
. Fiel	Early Field Experiences (Minimum of 1 semester	Semester hours) Course Number EDCL 211	Course Title Teaching Field Experience I	Semester
		semester hours) Course Number EDCL 211 *EDCL 220	Course Title	Semester
	Early Field Experiences (Minimum of 1 semester	Semester hours) Course Number EDCL 211	Course Title Teaching Field Experience I *Teaching Field Experience (required for transfer students who do not have	Semester Hours
	Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours) Mid-Level Field Experiences (Minimum of 1	semester hours) Course Number EDCL 211 *EDCL 220	Course Title Teaching Field Experience I *Teaching Field Experience (required for transfer students who do not have a MEES (or equivalent) evaluation for Field I	Semester Hours 1 0
1.	Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours)	semester hours) Course Number EDCL 211 *EDCL 220 EDUC 210	Course Title Teaching Field Experience I *Teaching Field Experience (required for transfer students who do not have a MEES (or equivalent) evaluation for Field I Teaching Field Experience I Seminar	Semester Hours 1 0
1.	Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours) Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours) Culminating Clinical Experiences (Minimum of 8	EDUC 210 EDUC 410/510 ESCL 4712/5712	Teaching Field Experience I *Teaching Field Experience (required for transfer students who do not have a MEES (or equivalent) evaluation for Field I Teaching Field Experience I Seminar Teaching Field Experience II Teaching Field Experience II Seminar Student Teaching: Secondary	Semester Hours 1 0
1.	Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours) Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	Semester hours) Course Number EDCL 211 *EDCL 220 EDUC 210 EDCL 411/511 EDUC 410/510	Teaching Field Experience I *Teaching Field Experience (required for transfer students who do not have a MEES (or equivalent) evaluation for Field I Teaching Field Experience I Seminar Teaching Field Experience II Teaching Field Experience II Seminar Student Teaching: Secondary Student Teaching Professional Development	Semester Hours 1 0
1.	Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours) Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours) Culminating Clinical Experiences (Minimum of 8	EDUC 210 EDUC 211 EDUC 410/510 ESCL 4712/5712 EDUC 470	Teaching Field Experience I *Teaching Field Experience (required for transfer students who do not have a MEES (or equivalent) evaluation for Field I Teaching Field Experience I Seminar Teaching Field Experience II Teaching Field Experience II Seminar Student Teaching: Secondary	Semester

		Course Number	Course Title	Semester Hours
1.	History/Philosophy of Science and Technology (Minimum of 3 semester hours)	IDST 313	History and Philosophy of Science and Technology	3
2.	Chemistry Coursework – Minimum of 20 semester hours which must include		Ţ,	
	a. Inorganic Chemistry	CHEM 443	Inorganic Chemistry	3
	b. Analytical Chemistry	CHEM 332 AND CHEM 343	Analytical Chemistry AND Analytical Chemistry Lab	5
	c. Organic Chemistry	CHEM 313 AND CHEM 312 AND CHEM 310	Organic Chemistry I AND Organic Chemistry I Lab AND Organic Chemistry I Problem Solving	5
	d. Physical Chemistry	CHEM 413	Physical Chemistry I	3
	e. Biochemistry	BCHM 443 AND BCHM 441	Biochemistry AND Biochemistry Lab	4
	f. Chemistry Electives	May choose any of the following: CHEM 323+322 CHEM 372-374 CHEM 383 CHEM 423 CHEM 453+452 CHEM 463 CHEM 472+462 CHEM 481-486	May choose any of the following: Organic Chemistry II & Lab Instructional Methods & Problems in CHEM Advanced Topics in Chemistry Physical Chemistry II Modern Instrumental Analysis & Lab Industrial Chemistry Molecular Modeling & Lab Chemistry Research	To total 20 ho as needed
3.	Additional Science Coursework – Minimum of 12 semester hours which must include			
	a. Biology	BIOL 113 AND 111 OR BIOL 123 AND 121	General Biology I and Lab OR General Biology II and Lab	4
	b. Physics	PHYS 213 AND PHYS 211 (PHYS 223 AND PHYS 121)	General Physics I AND Lab (General Physics II AND Lab-Pre-requisite for CHEM 413 at MBU)	4-8

		OR BIOL 323B	OR Ecology	3-4
d.	Environmental Science	BIOL 323 and 321	Environmental Science and Conservation	2.4
C.	Earth Science	PHYS 123 AND PHYS 121	Geology and Earth Science AND Geology and Earth Science Lab	4