

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

## **TECHNOLOGY AND ENGINEERING, GRADES 9-12 - MAT**

EDUCATOR PREPARATION PROGRAM NAME LINDENWOOD UNIVERSITY

EDUCATOR PREPARATION PROGRAM CODE 018759

## **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 <a href="mailto:DESE.MoSPETransition@dese.mo.gov">DESE.MoSPETransition@dese.mo.gov</a> on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573-751-1668 or <a href="DESE.MoSPETransition@dese.mo.gov">DESE.MoSPETransition@dese.mo.gov</a>

	ontent Planning and Delivery I	Course Number	Course Title	Semester Hours	
a.	Curriculum and Instructional Planning	EDU 52110	Middle School/High School Classroom Teaching and Technology	3	
b.	Content Area Specialty	EDU 53539	Secondary Methods of Teaching Technology and Engineering	3	
C.	Decision-Making	EDU 58404	Advanced Measurement and Evaluation to Enhance Learning	3	
d.	Strategies for Content Literacy	EDU 58700 OR	Reading/Writing Across the Curriculum OR	3	
		EDU 50700 OR	Reading in the Content Area OR	3	
		EDU 50710 OR	Content Literacy for Diverse Learners OR	3	
		EDU 50705	Methods of Teaching Reading in the Content Area	3	
e.	Critical Thinking and Problem Solving	EDU 52110	Middle School/High School Classroom Teaching and Technology	3	
		EDU 54310	Middle School/High School Differentiation and Classroom Management	3	
f.	English Language Learning	EDU 50710	Content Literacy for Diverse Learners	3	
2. In	2. Individual Student Needs				
		Course Number	Course Title	Semester Hours	
a.	Psychological Development of the Child and Adolescent	EDU 50200	Psychology of Teaching and Learning	3	
b.	Psychology/Education of the Exceptional Child	EDU 54100	Education of the Exceptional Child	3	
C.	Differentiated Learning	EDU 52110	Middle School/High School Classroom Teaching and Technology	3	
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		EDU 54310	Middle School/High School Differentiation and Classroom Management	3	
d.	Classroom Management	EDU 54310 EDU 52110	and Classroom Management Middle School/High School Classroom	3	
d.	Classroom Management		and Classroom Management		
d.	-	EDU 52110	and Classroom Management  Middle School/High School Classroom Teaching and Technology Middle School/High School Differentiation	3	
	-	EDU 52110 EDU 54310 EDU 50000	and Classroom Management  Middle School/High School Classroom Teaching and Technology Middle School/High School Differentiation and Classroom Management  Foundations of K-12 Education	3 3	

	3.	Schools and the Teaching Profession			
		- 1010001011	Course Number	Course Title	Semester Hours
		a. Consultation and Collaboration	EDU 52110	Middle School/High School Classroom	3
				Teaching and Technology	
			EDU 54310	Middle School/High School Differentiation	3
				and Classroom Management	
			EDU 58404	Advanced Measurement and Evaluation to	3
				Enhance Learning	_
		b. Legal/Ethical Aspects of Teaching	EDU 50000	Foundations of K-12 Education	3
			EDU 52110	Middle School/High School Classroom	3
			EDU 58404	Teaching and Technology Advanced Measurement and Evaluation to	3
			EDU 30404	Enhance Learning	3
	4.	Secondary Literacy (Minimum of six semeste	r hours)	Ermano Esaming	
		Secondary Energy (William or elx compete	Course Number	Course Title	Semester Hours
		a. Reading and Writing in the Content Area	EDU 58700	Reading/Writing Across the Curriculum	3
		a. Hodding and Himing in the Coment, hea		riodanig/rining/lorded the Carriodau.	
		b. Instructional Interventions for Students with	EDU 50710	Content Literacy for Diverse Learners	3
		Reading Deficits		, , , , , , , , , , , , , , , , , , , ,	
		<u> </u>	Professiona	al Requirements - Total Semester Hours	27
B.	Fie	eld and Clinical Experiences (Minimum of te		•	
			Course Number	Course Title	Semester Hours
	1.	Early Field Experiences (Minimum of one	EDU 50000	Foundations of Education	(1)
		semester hour with a minimum of 30 clock hours)			,
	2.	Mid-Level Field Experiences (Minimum of one	EDU 54310	Middle School/High School Differentiation	(1)
		semester hour with a minimum of 45 clock hours)		and Classroom Management	
	3.	Culminating Clinical Experiences (Minimum of	EDU 60599	Field Experience: Student Teaching	12
1		eight semester hours with a minimum of 12			
		weeks in one placement)			
				cal Experiences - Total Semester Hours	12
C.	Tec	chnology and Engineering Content Knowled		of 36 semester hours)	
			Course Number	Course Title	Semester Hours
	1.	Communication Technology (six semester	EDI 10000	Engineering Drawing (SLCC-FV)	3
		hours)	EDI 11600	Construction Blueprint Reading (SLCC-FV)	3
	2.	Energy and Power (six semester hours)	EDI 11000	Technical Electric Circuits I (SLCC-FV)	4
		Energy and remor (encommoner means)	EDI 11100	Technical Electric Circuits II (SLCC-FV)	4
			EDI 24010	Transmission and Distribution of Power	3
				(SLCC-FV)	
			EDI 25501	Fluid Power (SLCC-FV)	3
	3.	Materials and Processes Technology (six	EDI 15100	Manufacturing Processes I (SLCC-FV)	3
		semester hours)	EDI 15200	Manufacturing Processes II (SLCC-FV)	3
			EDI 12103	Computer Integrated Manufacturing (SLCC-	3
			EDI 10100	FV)	2
	4.	Organization and Administration (six semester	EDI 10100 EDI 12101	Welding Technology (SLCC-FV) Principles of Engineering (SLCC-FV)	<u>3</u> 3
	4.	hours)	EDI 12101 EDI 30100	Construction Materials and Methods (SLCC-	3
		nours)	LDI 30100	FV)	3
	5.	Electives (12 semester hours)	EDI 10400	Electronic Drafting (SLCC-FV)	2
	0.	Electives (12 semester floars)	EDI 13101	Computer Art Studio (SLCC-FV)	
			EDI 13300	Introduction to AutoCAD I (SLCC-FV)	3 2
			EDI 13301	Graphic Design I (SLCC-FV)	3
			EDI 13900	3-D AutoCAD with Autoshade (SLCC-FV)	3 2 2 2
			EDI 14100	Introduction to AutoCAD II (SLCC-FV)	2
			EDI 14500	Computer Solids Modeling (SLCC-FV)	
			EDI 14700	Introduction to Engineering Design (SLCC-FV)	3
			EDI 16500	Photography I (SLCC-FV)	3
			EDI 23000	Introduction to 3-D Solid Modeling for Design	4
			EDI 25500	(SLCC-FV)	2
1			EDI 25500	Advanced Computer Aided Drafting (SLCC-FV)	3
			EDI 13000	Electric Circuits I (SLCC-FV)	4
			EDI 13100	Electric Circuits II (SLCC-FV)	4
1			EDI 13200	Electronic Devices (SLCC-FV)	
			EDI 22300	Basic Hydraulics I (SLCC-FV)	5 2
			EDI 24101	Transmission and Distribution of Power	3
			ED1 0	(SLCC-FV)	_
			EDI 25501	Fluid Power (SLCC-FV)	3
			EDI 10100	Welding Technology (SLCC-FV)	3
			EDI 10800	Construction Methods (SLCC-FV)	3 3
1			EDI 14001 EDI 15100	Introduction to Robotics (SLCC-FV) Manufacturing Processes I (SLCC-FV)	3
			EDI 15100 EDI 15200	Manufacturing Processes I (SLCC-FV)	3
			EDI 24100	Numerical Control Programming (SLCC-FV)	3
1			EDI 24900	Materials and Metallurgy (SLCC-FV)	3
		L	L		

EDI 12200 EDI 14800 EDI 25600	Engineering Design and Development (SLCC-FV) Solid Modeling with Unigraphics (SLCC-FV) Solid Modeling with CATIA (SLCC-FV)	3 2 2 2
Content K	nowledge Area - Total Semester Hours	36

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