

Bachelor of Education in Mathematics and Physics (BEMP)

Major Electives

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
Total		6		

Core Requirements

Code	Title	Credits	Prerequisites	Corequisites
CSCI250	Introduction to Programming	3	CSCI200	ENGL101 - CSCI250L
CSCI250L	Introduction to Programming Lab	1	CSCI200	ENGL101 - CSCI250
EDIT250	Educational Technology for Teachers	3	CSCI200	
EDUC221	Introduction to Educational Psychology	3		ENGL201
EDUC281	Learning & Developmental Theories	3	EDUC221	
EDUC328	Introduction to Math and General Sciences Curriculum	3	ENGL251	
EDUC346	Introduction to Classroom Management	3	EDUC281	
EDUC380	Statistical Research in Education	3	ENGL251	
EDUC405	Methods of Teaching & Testing	3	EDUC281	
EDUC411	Introduction to the Philosophy of Education	3	ENGL201	
EDUC423	Teaching Mathematics and General Sciences for Elementary Teachers	3	EDUC328	EDUC405
EDUC440	Teaching Practicum I	3		EDUC405
EDUC490	Teaching Practicum II	3	EDUC440	
MATH210	Calculus II	3	MATH161 - MATH160	
MATH220	Calculus III	3	MATH210	
MATH225	Linear Algebra with Applications	3	ENGL051 - MATH161	
MATH260L	Discrete Mathematics Lab	1	MATH225	MATH260
MATH305	Programming Languages for Scientist	3	MATH260	
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210 - ENGL201	
MATH345	Introduction to Real Analysis	3	MATH270 - MATH220	
MATH492	Mathematical Seminar	1		
PHYS210	Mechanics	3	PHYS161 - MATH161 - PHYS160 - MATH160 - ENGL051	
PHYS280	Electricity and Magnetism	3	PHYS210 - MATH161 - MATH160	
PHYS340	Modern Physics	3	PHYS250	
Total		66		

Major Requirements

Code	Title	Credits	Prerequisites	Corequisites
MATH260	Discrete Mathematics	3	MATH225	MATH260L
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
PHYS250	Thermodynamic and Waves	3	PHYS161 - MATH161 - ENGL051 - MATH160 - PHYS160	

		Total	9		
General Education Requirements					
Code	Title	Credits	Prerequisites	Corequisites	
ARAB200	Arabic Language and Literature	3			
CSCI200	Introduction to Computers	3	ENGL051		
CULT200	Introduction to Arab - Islamic Civilization	3			
ENGL201	Composition and Research Skills	3	ENGL151		
ENGL251	Communication Skills	3	ENGL201		
		Total	15		
General Education Electives					
Code	Title	Credits	Prerequisites	Corequisites	
	Elective	3			
		Total	3		
Major Elective Courses					
Code	Title	Credits	Prerequisites	Corequisites	
EDUC305	Educational Theories in Guidance and Counseling	3	EDUC221		
EDUC375	Introduction to Special Education	3	EDUC221		
EDUC421	Teaching Mathematics for Elementary Teachers	3		EDUC405	
EDUC460	Role of Play in Child Development	3	EDUC281		
LANG230	Sign Language	3			