## The International University of Beirut **الجامعة الدولية** في بيروت

Major Title: Bachelor of Education in Mathematics and Physics Major Code: BEMP Level: underGraduate Number Of Credits: 99 Date: 19-05-2023

## Bachelor of Education in Mathematics and Physics (BEMP)

First Year								
Fall Semester								
Code	Title	Credits	Prerequisites	Corequisites				
PHYS210	Mechanics		PHYS161 - MATH161 - PHYS160 - MATH160 - ENGL051					
CSCI200	Introduction to Computers	3	ENGL051					
CULT200	Introduction to Arab - Islamic Civilization	3						
ENGL201	Composition and Research Skills	3	ENGL151					
MATH225	Linear Algebra with Applications	3	ENGL051 - MATH161					
Total		15		-				
Spring Semester								
Code	Title	Credits	Prerequisites	Corequisites				
CSCI250	Introduction to Programming	3	CSCI200	ENGL101 - CSCI250L				
MATH210	Calculus II	3	MATH161 - MATH160					
MATH260L	Discrete Mathematics Lab	1	MATH225	MATH260				
CSCI250L	Introduction to Programming Lab	1	CSCI200	ENGL101 - CSCI250				
EDUC221	Introduction to Educational Psychology	3		ENGL201				
EDIT250	Educational Technology for Teachers	3	CSCI200					
MATH260	Discrete Mathematics	3	MATH225	MATH260L				
Total		17						
Second Year								
Fall Semester								
Fall Semes	ter							

Fall Semester							
Code	Title	Credits	Prerequisites	Corequisites			
PHYS280	Electricity and Magnetism	3	PHYS210 - MATH161 - MATH160				
MATH220	Calculus III	3	MATH210				
EDUC281	Learning & Developmental Theories	3	EDUC221				
EDUC328	Introduction to Math and General Sciences Curriculum	3	ENGL251				
ENGL251	Communication Skills	3	ENGL201				
MATH270	Ordinary Differential Equations	3	MATH210	MATH225			
Total		18					
Spring Semester							
Code	Title	Credits	Prerequisites	Corequisites			
	Programming Languages for Scientist	3	MATH260				
EDUC346	Introduction to Classroom Management	3	EDUC281				
EDUC423	Teaching Mathematics and General Sciences for Elementary Teachers	3	EDUC281				
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210 - ENGL201				
PHYS250	Thermodynamic and Waves	3	PHYS161 - MATH161 - ENGL051 - MATH160 - PHYS160				
ARAB200	Arabic Language and Literature	3					
Total		18					

	Third Year							
Fall Semester								
Code	Title	Credits	Prerequisites	Corequisites				
PHYS340	Modern Physics	3	PHYS250					
EDUC440	Teaching Practicum I	3	EDUC346	EDUC405				
	Elective	3						
EDUC405	Methods of Teaching & Testing	3	EDUC281					
EDUC380	Statistical Research in Education	3	ENGL201					
MATH345	Introduction to Real Analysis	3	MATH270 - MATH220					
Total		18						
Spring Sem	nester							
Code	Title	Credits	Prerequisites	Corequisites				
	Elective	3						
	Introduction to the Philosophy of Education	3	ENGL201					
MATH492	Mathematical Seminar	1						
EDUC490	Teaching Practicum II	3	EDUC440					
	Elective	3						
Total		13						
	Major E	Elective	Courses					
	Title	Credits	Prerequisites	Corequisites				
	Teaching Arts & Crafts	3		ENGL101				
EDUC261	Music Methods for Home Class Teachers	3		ENGL151				
EDUC305	Educational Theories in Guidance and Counseling	3	EDUC221					
EDUC375	Introduction to Special Education	3	EDUC221					
EDUC390	Introducing the Montessori Approach to Early Years Practices	3		EDUC281				
EDUC421	Teaching Mathematics for Elementary Teachers	3		EDUC405				
EDUC460	Role of Play in Child Development	3	EDUC281					
LANG230	Sign Language	3						