

Degree and Study Plan (Spring intake)

College	Applied and Health Sciences
Department	Basic and Applied Sciences
Program	Mathematics
Degree Level	Bachelor of Science
Total Credit Hours	120
Cohort	2024 and above

Summary of Credits	
University Requirements (UR)	12
University Electives (UE)	6
College Requirements (CR)	12
Program Requirements (PR)	72
Program Electives (PE)	18
Total	120

For more information contact:

Dr. Jamal Salah

HoD: Dr. Rayya Al Balushi

Dean: Dr. Said Al Gunaimi

Date:

Year One	Semester 1 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category
	ENGL101	English Communication Skills I	3		UR
	MATH101	Calculus I	3		PR
	MATH140	Discrete Mathematics	3		PR
	PHYS101	Physics I	3		CR
	PHYS181	Physics I Lab	1		CR
	OMNS101	Oman Society	3		UR
	Total Credits		16		
	Semester 2 (Summer)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request*	Category
	MATH102	Calculus II	3	MATH101	PR
	MAT211	Principles of Mathematics	3		PR
	Total Credits		6		

Year Two	Semester 3 (Fall)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category
	ARAB101	Arabic I	3		UR
		University Elective 1	3		UE
	MATH251	Modern Euclidean Geometry	3	MATH211	PR
	MATH221	Ordinary Differential Equations I	3	MATH102	PR
	MATH242	Linear Algebra	3	MATH101	PR
	Total Credits		15		
	Semester 4 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category
		University Elective 2	3		UE
	BIOL101/ or CHEM101	Biology I/ or Chemistry I	3		CR
	BIOL181/ Or CHEM181	Biology I Lab/ or Chemistry I Lab	1		CR
		Program Elective 1	3		PE
	MATH212	Real Analysis	3	MATH211	PR
	MATH301	Multivariable Calculus	3	MATH102	PR
	Total Credits		16		
	Semester 5 (Summer)				
	Program Elective 2	3		PE	
	Program Elective 3	3		PE	
Total Credits		6			

Year	Semester 6 (Fall)				
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	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category
	MATH361	Computational Mathematics	3	MATH242	PR
	MATH321	Partial Differential Equations I	3	MATH221	PR
	MATH341	Modern Algebra	3	MATH211	PR
		Program Elective 4	3		PE
	MATH312	Set Theory	3	MATH211	PR
	Total Credits		15		
	Semester 7 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category
	MATH342	Number Theory	3	MATH341	PR
		Program Elective 5	3		PE
	MATH313	Advanced Real Analysis	3	MATH212	PR
	MATH343	Advanced Linear Algebra	3	MATH242	PR
	MNGT313	Entrepreneurship	3		UR
	Total Credits		15		
	Semester 8 (Summer)				
	PHYS102	Physics II	3	PHYS101	CR
	PHYS182	Physics II/Lab	1	PHYS181	CR
	Total Credits		4		

Year Four	Semester 9 (Fall)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category
	MATH411	Complex Analysis	3	MATH212	PR
	MATH422	Partial Differential Equation II	3	MATH321	PR
	MATH421	Ordinary Differential Equations II	3	MATH221	PR
		Program Elective 6	3		PE
	MATH461	Numerical Analysis	3	MATH321	PR
	Total Credits		15		
	Semester 10 (Spring)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category
	MATH462	Operation Research	3	MATH242	PR
	MATH442	Mathematical Modeling	3	MATH321	PR
	MATH499	Project in Mathematics	6	After 72 CR	PR
	Total Credits		12		
	Summer				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category

Year Five	Semester 9 (Fall)				
	Course Code	Course Title	Credits	Pre-Request/ Co-Request	Category

FAID101	First Aid	3	
PUHE211	Introduction to Public Health	3	
LAWC101	القانون في حياتنا	3	
LAWC102	التشريعات الوظيفية	3	
LAWC103	نظام الأسرة	3	