

## Study Plans

Major : 20201 Mathematics and Statistics Mathematics

Edition : 38

Total Hours : 138

Level : First			
Course No.	Course Name	prerequisite	prerequisite Name
105115-2	History of the Kingdom		
201104-4	General Biology		
202112-3	Introduction to Mathematics		
2031204-4	General Physics (١)		
999801-2	English for Academic Purposes (١)		

Level : Second			
Course No.	Course Name	prerequisite	prerequisite Name
2021204-4	Calculus (١)	202112-3	Introduction to Mathematics
204101-4	General Chemistry (١)		
2051204-3	Introduction to Biotechnology		
990211-2	Arabic Language Skills		
990311-2	University Study Skills		
999802-2	English for Academic Purposes ٢	999801-2	English for Academic Purposes (١)

Level : Third			
Course No.	Course Name	prerequisite	prerequisite Name
2022103-3	Geometry	202112-3	Introduction to Mathematics
2022104-4	Calculus II	2021204-4	Calculus (١)
2022106-3	Set Theory	202112-3	Introduction to Mathematics
2022107-4	Probability and statistics	2021204-4	Calculus (١)
990112-2	Islamic Culture (Morals and Values)	990111-2	Fundamentals of Islamic Culture
999803-2	English for Academic Purposes (٢)	999802-2	English for Academic Purposes ٢

Level : Forth			
Course No.	Course Name	prerequisite	prerequisite Name
2022201-4	Ordinary Differential Equations	2022104-4	Calculus II
2022202-4	Calculus III	2022104-4	Calculus II
2022203-4	Mechanics	2022104-4	Calculus II
2022204-3	Linear Algebra	202112-3	Introduction to Mathematics
990111-2	Fundamentals of Islamic Culture		
999804-2	English for Academic Purposes (٤)	999803-2	English for Academic Purposes (٢)

Level : Fifth			
Course No.	Course Name	prerequisite	prerequisite Name
2023101-3	Theory of Statistics	2022107-4	Probability and statistics
2023102-3	Real Analysis (١)	2022104-4	Calculus II
2023103-4	Differential Equations	2022201-4	Ordinary Differential Equations
2023106-3	Group Theory	2022106-3	Set Theory
999819-2	Special English For Science		

Level : Sixth			
Course No.	Course Name	prerequisite	prerequisite Name
2023201-4	Mathematical Methods	2023103-4	Differential Equations
2023202-4	Real Analysis (٢)	2023102-3	Real Analysis (١)
2023203-3	Ring Theory	2023106-3	Group Theory
2023204-3	Fluid Mechanics	2022203-4	Mechanics
2023205-2	Programming Languages		
990313-2	Islamic Culture (The social system in Islam)	990112-2	Islamic Culture (Morals and Values)

Level : Seventh			
Course No.	Course Name	prerequisite	prerequisite Name
2024101-3	General Topology	2022106-3	Set Theory
2024102-3	Complex Analysis	2023202-4	Real Analysis (٢)
2024103-3	Numerical Analysis	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024110-3	Applications of Algebra	2023203-3	Ring Theory
2024111-3	Optimization Theory	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024112-3	Applied Stochastic Processes	2022107-4	Probability and statistics
2024113-3	Biomathematics	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024114-3	Tensors	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024115-3	Functional Analysis	2023202-4	Real Analysis (٢)
990314-2	Frnch Language		
990315-2	Chinese Language		
990414-2	Islamic Culture (Human Rights)	990313-2	Islamic Culture (The social system in Islam)
999809-2	Presentation Skills		
999814-2	IELTS Preparation		
999815-2	Academic Writing		
999821-2	English and the ٢١ st century skills	999819-2	Special English For Science

Level : Eighth			
Course No.	Course Name	prerequisite	prerequisite Name
2024201-3	Research Project		
2024202-3	Mathematical Modeling	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024203-2	Scientific Computations	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024204-3	Differential Geometry	2022103-3	Geometry
		2022202-4	Calculus III
2024205-3	Financial Mathematics	2023101-3	Theory of Statistics
2024210-3	Discrete Mathematic	2022106-3	Set Theory
		2022204-3	Linear Algebra
2024211-3	Quantum Mechanics	2023103-4	Differential Equations
2024212-3	Advanced Biostatistics	2023101-3	Theory of Statistics

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Course No.	Course Name	prerequisite	prerequisite Name	Course No.	Course Name	prerequisite	prerequisite Name
202112-3	Introduction to Mathematics			2021204-4	Calculus (١)	202112-3	Introduction to Mathematics
204101-4	General Chemistry (١)			2031204-4	General Physics (١)		
990111-2	Fundamentals of Islamic Culture			990211-2	Arabic Language Skills		
999801-2	English for Academic Purposes (١)			999802-2	English for Academic Purposes	999801-2	English for Academic Purposes (١)
Level : Third				Level : Forth			
Course No.	Course Name	prerequisite	prerequisite Name	Course No.	Course Name	prerequisite	prerequisite Name
201104-4	General Biology			2022103-3	Geometry	202112-3	Introduction to Mathematics
2051204-3	Introduction to Biotechnology			2022104-4	Calculus II	2021204-4	Calculus (١)
990311-2	University Study Skills			2022106-3	Set Theory	202112-3	Introduction to Mathematics
999803-2	English for Academic Purposes (٢)	999802-2	English for Academic Purposes ١	999804-2	English for Academic Purposes (٤)	999803-2	English for Academic Purposes (٣)
Level : Fifth				Level : Sixth			
Course No.	Course Name	prerequisite	prerequisite Name	Course No.	Course Name	prerequisite	prerequisite Name
2022201-4	Ordinary Differential Equations	2022104-4	Calculus II	105115-2	History of the Kingdom		
2022202-4	Calculus III	2022104-4	Calculus II	2022107-4	Probability and statistics	2021204-4	Calculus (١)
990112-2	Islamic Culture (Morals and Values)	990111-2	Fundamentals of Islamic Culture	2022203-4	Mechanics	2022104-4	Calculus II
				2022204-3	Linear Algebra	202112-3	Introduction to Mathematics
Level : Seventh				Level : Eighth			
Course No.	Course Name	prerequisite	prerequisite Name	Course No.	Course Name	prerequisite	prerequisite Name
2023103-4	Differential Equations	2022201-4	Ordinary Differential Equations	2023101-3	Theory of Statistics	2022107-4	Probability and statistics
2023106-3	Group Theory	2022106-3	Set Theory	2023102-3	Real Analysis (١)	2022104-4	Calculus II
990313-2	Islamic Culture (The social system in Islam)	990112-2	Islamic Culture (Morals and Values)	2023201-4	Mathematical Methods	2023103-4	Differential Equations
999819-2	Special English For Science			2023205-2	Programming Languages		
Level : Ninth				Level : Tenth			
Course No.	Course Name	prerequisite	prerequisite Name	Course No.	Course Name	prerequisite	prerequisite Name
2023202-4	Real Analysis (٢)	2023102-3	Real Analysis (١)	2024101-3	General Topology	2022106-3	Set Theory
2023203-3	Ring Theory	2023106-3	Group Theory	2024102-3	Complex Analysis	2023202-4	Real Analysis (٢)
2023204-3	Fluid Mechanics	2022203-4	Mechanics	2024103-3	Numerical Analysis	2022201-4	Ordinary Differential Equations
990414-2	Islamic Culture (Human Rights)	990313-2	Islamic Culture (The social system in Islam)			2022204-3	Linear Algebra
				2024110-3	Applications of Algebra	2023203-3	Ring Theory
				2024111-3	Optimization Theory	2022201-4	Ordinary Differential Equations
						2022204-3	Linear Algebra
				2024115-3	Functional Analysis	2023202-4	Real Analysis (٢)

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2024112-3	Applied Stochastic Processes	2022107-4	Probability and statistics
2024114-3	Tensors	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024202-3	Mathematical Modeling	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024203-2	Scientific Computations	2022201-4	Ordinary Differential Equations
		2022204-3	Linear Algebra
2024205-3	Financial Mathematics	2023101-3	Theory of Statistics
2024211-3	Quantum Mechanics	2023103-4	Differential Equations
990314-2	Frnch Language		
990315-2	Chinese Language		
999809-2	Presentation Skills		
999814-2	IELTS Preparation		
999815-2	Academic Writing		
999821-2	English and the 21 <sup>st</sup> century skills	999819-2	Special English For Science

Level :			
Course No.	Course Name	prerequisite	prerequisite Name
2024113-3	Biomathematics	2022201-4	Ordinary Differential Equations
2024201-3	Research Project		
2024204-3	Differential Geometry	2022103-3	Geometry
		2022202-4	Calculus III
2024210-3	Discrete Mathematicce	2022106-3	Set Theory
		2022204-3	Linear Algebra
2024212-3	Advanced Biostatistics	2023101-3	Theory of Statistics