

Bachelor of Science in Statistics and Data Analytics Model Study Plan (2022-2023 Cohort onwards)
Concentration: Analytics for Business

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 121

Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	Year 2 (Spring)	CSBP123	Introduction to Programming	4	Statistics Core
	STAT102	Business Statistics I	3	Research Learning Line		BANA200	Managing with Analytics	3	Business Core
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		MATH130	Calculus II	3	Statistics Core
	HSS305	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)		GEU124	Sustainability	3	Gen Ed Course (Cluster 3: Area 3: Sustainability)
	ESPU104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)		STAT202	Business Statistics II	3	Research Learning Line
Year 2 (Fall)	GBU205	Personal Development: Leadership and Team Competence	3	Learning in Action	GEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 4: Social and Behavioral Sciences)	
	MATH140	Linear Algebra I	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	STAT230	Principles of Probability	3	Statistics Core	STAT360	Applied Regression	3	Statistics Core	
	STAT430	Data Exploration and Analysis	3	Statistics Core	BANA350	Business Intelligence	3	Business Analytics Core	
Year 3 (Fall)	BANA380	Business Analytics	3	Concentration	BANA310	Data Management and Organization	3	Business Analytics Core	
	STAT380	Statistical Machine Learning	3	Statistics Core	GEI222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	
	BANA400	Applied Multivariate Analysis	3	Statistics Core	BANA400	Business Analytics Applications	3	Concentration	
	STAT330	Survey Methods	3	Statistics Core	STAT470	Introduction to Statistical Computing	3	Statistics Core	
	GBU350	Digital Economy	3	Business Core	GBU300	Research Methods in Business and Economics	3	Research Learning Line	
Year 4 (Fall)	GBU460	Internship	12	Learning in Action	STAT482	Capstone in Analytics for Business	3	Concentration	
	GBU301	Personal Development: Career Preparation and Orientation	3	Learning in Action	Elective	Student choice	3	Major Elective	
					Elective	Student choice	3	Major Elective	
					Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	
					Elective	Student choice	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)	

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Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Spring)	MATH140	Linear Algebra I	3	Statistics Core	Year 2 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	STAT102	Business Statistics I	3	Research Learning Line		STAT200	Business Statistics II	3	Research Learning Line
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		MATH130	Calculus II	3	Statistics Core
	BANA200	Managing with Analytics	3	Business Core		GEU124	Sustainability	3	Gen Ed Course (Cluster 3: Area 3: Sustainability)
	ESPU104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)		ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 4: Social and Behavioral Sciences)
Year 2 (Spring)	CSBP123	Introduction to Programming	4	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	GBU205	Personal Development: Leadership and Team Competence	3	Learning in Action	STAT360	Applied Regression	3	Statistics Core	
	BANA350	Business Intelligence	3	Business Analytics Core	BANA350	Business Intelligence	3	Business Analytics Core	
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	GBU200	Digital Economy	3	Business Core	
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	GBU300	Research Methods in Business and Economics	3	Research Learning Line	
Year 3 (Spring)	GEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	BANA380	Business Analytics	3	Concentration	
	STAT300	Introduction to Statistical Inference	3	Statistics Core	STAT380	Statistical Machine Learning	3	Statistics Core	
	STAT360	Applied Regression	3	Statistics Core	STAT400	Applied Multivariate Analysis	3	Statistics Core	
	STAT470	Introduction to Statistical Computing	3	Statistics Core	STAT330	Survey Methods	3	Statistics Core	
	BANA310	Data Management and Organization	3	Business Analytics Core	Elective	Student choice	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)	
Year 4 (Spring)	BANA400	Business Analytics Applications	3	Concentration	GBU460	Internship	12	Learning in Action	
	GEI222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	STAT480	Capstone in Statistics and Data Analytics	3	Concentration	
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Major Elective					
	GBU301	Personal Development: Career Preparation and Orientation	3	Learning in Action					

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Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	Year 2 (Spring)	CSBP123	Introduction to Programming	4	Statistics Core
	STAT102	Business Statistics I	3	Research Learning Line		STAT202	Business Statistics II	3	Research Learning Line
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		MATH130	Calculus II	3	Statistics Core
	HSS305	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)		GEU124	Sustainability	3	Gen Ed Course (Cluster 3: Area 3: Sustainability)
	ESPU104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)		BANA200	Managing with Analytics	3	Business Core
Year 2 (Fall)	GBU205	Personal Development: Leadership and Team Competence	3	Learning in Action	GEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 4: Social and Behavioral Sciences)	
	MATH140	Linear Algebra I	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	STAT230	Principles of Probability	3	Statistics Core	STAT360	Applied Regression	3	Statistics Core	
	STAT430	Data Exploration and Analysis	3	Statistics Core	BANA350	Business Intelligence	3	Business Analytics Core	
Year 3 (Fall)	STAT480	Capstone in Statistics and Data Analytics	3	Concentration	STAT430	Categorical Data Analysis	3	Concentration	
	GBU205	Personal Development: Career Preparation and Orientation	3	Learning in Action	GEI222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	
	Elective	Student choice	3	Major Elective	BANA310	Data Management and Organization	3	Business Analytics Core	
	Elective	Student choice	3	Major Elective	BANA400	Business Analytics Applications	3	Concentration	
	Elective	Student choice	3	Major Elective	STAT470	Introduction to Statistical Computing	3	Statistics Core	
Year 4 (Fall)	GBU350	Digital Economy	3	Business Core	GBU300	Research Methods in Business and Economics	3	Research Learning Line	
	STAT480	Capstone in Statistics and Data Analytics	3	Concentration					
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)					

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Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Spring)	MATH140	Linear Algebra I	3	Statistics Core	Year 2 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	STAT102	Business Statistics I	3	Research Learning Line		STAT200	Business Statistics II	3	Research Learning Line
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)		MATH130	Calculus II	3	Statistics Core
	BANA200	Managing with Analytics	3	Business Core		ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 4: Social and Behavioral Sciences)
	ESPU104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)					
Year 2 (Spring)	CSBP123	Introduction to Programming	4	Statistics Core	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	
	GBU205	Personal Development: Leadership and Team Competence	3	Learning in Action	STAT230	Principles of Probability	3	Statistics Core	
	BANA350	Business Intelligence	3	Business Analytics Core	STAT430	Data Exploration and Analysis	3	Statistics Core	
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	GBU200	Digital Economy	3	Business Core	
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	GBU300	Research Methods in Business and Economics	3	Research Learning Line	
Year 3 (Spring)	GEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	STAT460	Bayesian Statistics	3	Concentration	
	STAT300	Introduction to Statistical Inference	3	Statistics Core	STAT380	Statistical Machine Learning	3	Statistics Core	
	STAT360	Applied Regression	3	Statistics Core	STAT400	Applied Multivariate Analysis	3	Statistics Core	
	STAT470	Introduction to Statistical Computing	3	Statistics Core	STAT330	Survey Methods	3	Statistics Core	
	BANA310	Data Management and Organization	3	Business Analytics Core	Elective	Student choice	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)	
Year 4 (Spring)	STAT480	Capstone in Statistics and Data Analytics	3	Concentration	GBU460	Internship	12	Learning in Action	
	GBU205	Personal Development: Career Preparation and Orientation	3	Learning in Action	GBU301	Personal Development: Career Preparation and Orientation	3	Learning in Action	
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Major Elective					
	Elective	Student choice	3	Major Elective					

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Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	Year 1 (Spring)	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	STAT100	Business Statistics I	3	Research Learning Line		BANA200	Managing with Analytics	3	Business Core
	CSBP121	Programming Lab I	1	Statistics Core		MATH110	Calculus II	3	Statistics Core
	SEEM105	Emirates Studies	1	Gen Ed Course (Cluster 2: Area 3: Emirates Society)		SESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
Year 2 (Fall)	EPOL104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	STAT200	Business Statistics II	3	Research Learning Line	
	MGM1201	Fundamentals of Management and Organizational Behavior: Biography of the Prophet "Sira"	3	Learning in Action	SEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	
	SEES101	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)	
	MATH140	Linear Algebra I	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
Year 3 (Fall)	STAT330	Principles of Probability	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	STAT240	Data Exploration and Analysis	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	BANA200	Business Intelligence	3	Business Analytics Core	BANA200	Foundation of Business Information Management	3	Business Core	
	BANA380	Business Analytics	3	Concentration					
Year 4 (Fall)	STAT380	Statistical Machine Learning	3	Statistics Core	BANA330	Data Management and Organization	3	Business Analytics Core	
	STAT300	Applied Multivariate Analysis	3	Statistics Core	GEI222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	
	STAT330	Survey Methods	3	Statistics Core	BANA400	Business Analytics Applications	3	Concentration	
	STAT430	Categorical Data Analysis	3	Statistics Core	STAT470	Introduction to Statistical Computing	3	Statistics Core	
Year 4 (Spring)	GBU1460	Internship	12	Learning in Action	STAT489	Capstone in Analytics for Business	3	Concentration	
	MKT10205	Introduction to Marketing in the Digital Economy	3	Learning in Action	STAT489	Capstone in Analytics for Business	3	Concentration	
					STAT489	Capstone in Analytics for Business	3	Concentration	
					STAT489	Capstone in Analytics for Business	3	Concentration	

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Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Spring)	MATH140	Linear Algebra I	3	Statistics Core	Year 1 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	STAT100	Business Statistics I	3	Research Learning Line		STAT100	Business Statistics I	3	Research Learning Line
	BANA200	Managing with Analytics	3	Business Core		MATH110	Calculus II	3	Statistics Core
	EPOL104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)		SESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
Year 2 (Spring)	STAT430	Categorical Data Analysis	3	Statistics Core	ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)	
	MGM1201	Fundamentals of Management and Organizational Behavior	3	Learning in Action	CSBP121	Programming Lab I	1	Statistics Core	
	BANA200	Business Intelligence	3	Business Analytics Core	SEES101	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	
	SEEM105	Emirates Studies	1	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	STAT230	Principles of Probability	3	Statistics Core	
Year 3 (Spring)	SEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	STAT240	Data Exploration and Analysis	3	Statistics Core	
	STAT300	Introduction to Statistical Inference	3	Statistics Core	BANA200	Foundation of Business Information Management	3	Business Core	
	STAT300	Applied Regression	3	Statistics Core	GBU300	Research Methods in Business and Economics	3	Research Learning Line	
	STAT430	Introduction to Statistical Computing	3	Statistics Core	BANA330	Data Management and Organization	3	Business Analytics Core	
Year 4 (Spring)	BANA400	Business Analytics Applications	3	Concentration	STAT380	Statistical Machine Learning	3	Statistics Core	
	GEI222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	STAT330	Survey Methods	3	Statistics Core	
	STAT489	Capstone in Statistics and Data Analytics	3	Concentration	STAT330	Survey Methods	3	Statistics Core	
	MKT10205	Introduction to Marketing in the Digital Economy	3	Learning in Action	STAT330	Survey Methods	3	Statistics Core	

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Year 1 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)	Year 1 (Spring)	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	STAT100	Business Statistics I	3	Research Learning Line		STAT200	Business Statistics II	3	Research Learning Line
	CSBP121	Programming Lab I	1	Statistics Core		MATH110	Calculus II	3	Statistics Core
	SEEM105	Emirates Studies	1	Gen Ed Course (Cluster 2: Area 3: Emirates Society)		SESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
Year 2 (Fall)	EPOL104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)	BANA200	Managing with Analytics	3	Business Core	
	MGM1201	Fundamentals of Management and Organizational Behavior	3	Learning in Action	SEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	
	SEES101	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)	
	MATH140	Linear Algebra I	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
Year 3 (Fall)	STAT330	Principles of Probability	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	STAT240	Data Exploration and Analysis	3	Statistics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	BANA200	Business Intelligence	3	Business Analytics Core	STAT300	Introduction to Statistical Inference	3	Statistics Core	
	BANA380	Business Analytics	3	Concentration	STAT300	Introduction to Statistical Inference	3	Statistics Core	
Year 4 (Fall)	STAT380	Statistical Machine Learning	3	Statistics Core	STAT430	Categorical Data Analysis	3	Statistics Core	
	STAT300	Applied Multivariate Analysis	3	Statistics Core	STAT430	Categorical Data Analysis	3	Statistics Core	
	STAT330	Survey Methods	3	Statistics Core	STAT430	Categorical Data Analysis	3	Statistics Core	
	STAT430	Categorical Data Analysis	3	Statistics Core	STAT430	Categorical Data Analysis	3	Statistics Core	
Year 4 (Spring)	GBU1460	Internship	12	Learning in Action	GEI222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	
	MKT10205	Introduction to Marketing in the Digital Economy	3	Learning in Action	BANA400	Business Analytics Applications	3	Concentration	
					STAT470	Introduction to Statistical Computing	3	Statistics Core	
					STAT470	Introduction to Statistical Computing	3	Statistics Core	

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Semester	Course Code	Course Title	CH	Course type	Semester	Course Code	Course Title	CH	Course type
Year 1 (Spring)	MATH140	Linear Algebra I	3	Statistics Core	Year 1 (Fall)	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	STAT100	Business Statistics I	3	Research Learning Line		STAT100	Business Statistics I	3	Research Learning Line
	BANA200	Managing with Analytics	3	Business Core		MATH110	Calculus II	3	Statistics Core
	EPOL104	Introduction to Academic English For Business	3	Gen Ed Course (Cluster 1: Area 2: English Communication)		SESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
Year 2 (Spring)	STAT430	Categorical Data Analysis	3	Statistics Core	ECON105	Principles of Microeconomics	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)	
	MGM1201	Fundamentals of Management and Organizational Behavior	3	Learning in Action	CSBP121	Programming Lab I	1	Statistics Core	
	BANA200	Business Intelligence	3	Business Analytics Core	SEES101	Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)	
	SEEM105	Emirates Studies	1	Gen Ed Course (Cluster 2: Area 3: Emirates Society)	STAT230	Principles of Probability	3	Statistics Core	
Year 3 (Spring)	SEI112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)	STAT240	Data Exploration and Analysis	3	Statistics Core	
	STAT300	Introduction to Statistical Inference	3	Statistics Core	BANA200	Foundation of Business Information Management	3	Business Core	
	STAT300	Applied Regression	3	Statistics Core	GBU300	Research Methods in Business and Economics	3	Research Learning Line	
	STAT430	Introduction to Statistical Computing	3	Statistics Core	BANA330	Data Management and Organization	3	Business Analytics Core	
Year 4 (Spring)	BANA400	Business Analytics Applications	3	Concentration	STAT380	Statistical Machine Learning	3	Statistics Core	
	GEI222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	STAT330	Survey Methods	3	Statistics Core	
	STAT489	Capstone in Statistics and Data Analytics	3	Concentration	STAT330	Survey Methods	3	Statistics Core	
	MKT10205	Introduction to Marketing in the Digital Economy	3	Learning in Action	STAT330	Survey Methods	3	Statistics Core	