For students admitted from academic year 2025/2026 onwards (B-C5-XXXX-X students)

Bachelor of Science in Business Intelligence and Data Analytics - BIA25

Students are strongly advised to check the enrolment records each semester in order to secure the graduation requirement has been fulfilled. You may print out this study plan and cross-check with your enrolment records. Should you have any doubts on the below study plan, please approach the Department of Accounting and Information Management.

Subject to the actual courses offered, FBA and Department reserve the rights to make adjustments.

Course Type CM: Compulsory Major Course

GE: General Education Course

RE: Required Elective

FE: Free Elective

E1a Plan

First Year - UF1 (2025/2026)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
1 "Information Technolo	gy" Course				
CISC1000	Information Technology Fundamentals and Practices	3	CM - L&S	X	
CPED1000	Residential College Experiential Learning (Year course)	0.5	CM - CPE	X	
CPED1001/1002	Physical Education I /II	0.5	CM - CPE	X	
2 "English Language" C	ourses				
EELC1011	University English I	3	CM - L&S	X	
EELC1008	Grammar and Writing Improvement I	3	FE	X	
1 "Chinese or Portugues	se Language" Course / 1 General Education Cou	ırse			
CHLL1000/PORT1000 or GELH1000	University Chinese/Portuguese Language I – Introductory Portuguese or Chinese Language and Culture	3	CM - L&S or GE	X	
GEST1001	Quantitative Reasoning for Business	3	GE	X	
CPED1000	Residential College Experiential Learning (Year course)	0.5	CM - CPE		X
CPED1001/1002	Physical Education I /II	0.5	CM - CPE		X
1 "English Language" C	ourse				
EELC1012	University English II	3	CM - L&S		X
ISOM1004	Applied Calculus	3	CM		X
ISOM1005	Introduction to Business Intelligence and Information	3	СМ		X
GEGA1000	Macao and Chinese Civilization in a Global Context	3	GE		X
 GELH1000 or GESB1017	Chinese Language and Culture or Law and Society	3	GE		X
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Second Year - UF2 (2026/2027)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
1 "English Language" Cours	e***				
E4 English elective	Choose one from the following 3 courses: Academic English: Speaking Academic English: Writing Academic English: Project-based Learning	3	CM / FE	X	
1 Free Elective Course					
CPED2001	Residential College Community Team	1	CM	X	
ISOM2002	Statistics and Data Analysis	3	CM	X	
ISOM2005	Linear Algebra	3	CM	X	
ISOM2007	Programming for Business Analytics	3	CM	X	
ISOM3000	Database Management	3	CM	X	-

E1b Plan

First Year - UF1 (2025/2026)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd s
1 "Information Technol	ogy" Course		, ,		
CISC1000	Information Technology Fundamentals and Practices	3	CM - L&S	X	
CPED1000	Residential College Experiential Learning (Year course)	0.5	CM - CPE	X	
CPED1001/1002	Physical Education I /II	0.5	CM - CPE	X	
1 "English Language" (Course				
EELC1011	University English I	3	CM - L&S	X	
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1 "Chinese or Portugue	ese Language" Course / 1 General Education	Course			
CHLL1000/PORT1000 or GELH1000	University Chinese/Portuguese Language I – Introductory Portuguese or Chinese Language and Culture	3	CM - L&S or GE	X	
GEST1001	Quantitative Reasoning for Business	3	GE	X	
GEGA1000	Macao and Chinese Civilization in a Global Context	3	GE	X	
CPED1000	Residential College Experiential Learning (Year course)	0.5	CM - CPE		X
CPED1001/1002	Physical Education I /II	0.5	CM - CPE		X
1 "English Language" (Course				
EELC1012	University English II	3	CM - L&S		X
ISOM1004	Applied Calculus	3	CM		X
ISOM1005	Introduction to Business Intelligence and Information	3	СМ		X
GESB1017	Law and Society	3	GE		X
GELH1000 or one elective course from the specific course list*	Chinese Language and Culture	3	GE/RE		X
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^{*} Faculty assigns one RE, and students can change courses from specific course list.

Second Year - UF2 (2026/2027)

Second 1 cai - 012 (2020/2					
 Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
1 "English Language" Cour	rse***				
E4 English elective	Choose one from the following 3 courses: Academic English: Speaking Academic English: Writing Academic English: Project-based Learning	3	CM / FE	X	
1 Free Elective Course					
CPED2001	Residential College Community Team	1	CM	X	
ISOM2002	Statistics and Data Analysis	3	CM	X	
ISOM2005	Linear Algebra	3	CM	X	
ISOM2007	Programming for Business Analytics	3	СМ	X	
ISOM3000	Database Management	3	СМ	X	

ISOM3002	Analysis and Design of Information Systems	3	CM		X
ISOM3016	Computer Networking for Business	3	CM		X
ISOM3028	Advanced Computer Programming	3	CM		X
1 Required Elective from List A (Business Foundations)		3	RE		X
1 Required Elective from List A (Business Foundations)		3	RE		X
1 General Education Course		3	GE		X
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Third Year - UF3 (2027/2028)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
ISOM3012	Web Site Design and Internet Business Applications	3	СМ	X	
ISOM3030	Quantitative Decision Analysis	3	CM	X	
ISOM3036	Cyber Security and Blockchain	3	CM	X	
ISOM3039	Statistics for Business Applications	3	CM	X	
1 Required Elective from Lis	tt A (Business Foundations)	3	RE	X	
ISOM3018	Business Data Mining and Visualization	3	CM		X
ISOM3015	Big Data Management	3	CM		X
1 Required Elective from Lis	t B (Analytics & Technology)	3	RE		X
1 General Education Course		3	GE		X
1 General Education Course		3	GE		X
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Fourth Year - UF4 (2028/2029)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
ISOM3035	Operations Management	3	СМ	X	
ISOM4008	Machine Learning for Business Intelligence	3	СМ	X	
1 General Education Course		3	GE	X	
1 Free Elective Course		3	FE	X	
ISOM4005	Business Project Management	3	CM		X
ISOM4007	Graduation Project	3	CM		X
1 General Education Course	1 General Education Course		GE		X
1 Free Elective Course		3	FE		X
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Students are expected to complete 120 credits in oder to graduate.

Students are required to complete course from Required Elective from List A (Business Foundations)

Students select three	Students select three from the following:			
ACCT1000	Principles of Financial Accounting			
BECO1000	Principles of Microeconomics			
BECO1001	Principles of Macroeconomics			
FINC2000	Financial Management			
ISOM2006	E-Commerce and M-Commerce Strategies			
MGMT1000	Principles of Business Management			
MGMT2000	Business Communications			
MKTG2000	Principles of Marketing			

ISOM3002	Analysis and Design of Information Systems	3	CM	X
ISOM3016	Computer Networking for Business	3	CM	X
ISOM3028	Advanced Computer Programming	3	CM	X
1 Required Elective from List A (Business Foundations)		3	RE	X
1 Required Elective from List A (Business Foundations)		3	RE	X
1 General Education Course		3	GE	X
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Third Year - UF3 (2027/2028)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
ISOM3012	Web Site Design and Internet Business Applications	3	СМ	X	
ISOM3030	Quantitative Decision Analysis	3	CM	X	
ISOM3036	Cyber Security and Blockchain	3	CM	X	
ISOM3039	Statistics for Business Applications	3	CM	X	
1 Required Elective from L	ist A (Business Foundations)	3	RE	X	
ISOM3018	Business Data Mining and Visualization	3	CM		X
ISOM3015	Big Data Management	3	СМ		X
1 Required Elective from L	ist B (Analytics & Technology)	3	RE		X
1 General Education Course		3	GE		X
1 General Education Course		3	GE		X
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Fourth Year - UF4 (2028/2029)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
ISOM3035	Operations Management	3	CM	X	
ISOM4008	Machine Learning for Business Intelligence	3	CM	X	
1 General Education Course		3	GE	X	
1 Free Elective Course		3	FE	X	
ISOM4005	Business Project Management	3	CM		X
ISOM4007	Graduation Project	3	CM		X
1 General Education Cours	e	3	GE		X
1 Free Elective Course		3	FE		X
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Students are expected to complete 120 credits in oder to graduate.

Students are required to complete course from Required Elective from List A (Business Foundations)

Students select three from the following:				
ACCT1000	Principles of Financial Accounting			
BECO1000	Principles of Microeconomics			
BECO1001	Principles of Macroeconomics			
FINC2000	Financial Management			
ISOM2006	E-Commerce and M-Commerce Strategies			
MGMT1000	Principles of Business Management			
MGMT2000	Business Communications			
MKTG2000	Principles of Marketing			

Students are required to complete 1 course from Required Elective List B (Analytics and Technology)

Students select one from the following:		
ISOM3025	Business Modeling and Simulation	
ISOM3031**	Forecasting Models in Business	
ISOM3037	Internet of Things and Cloud Computing with Business Applications	

Students are required to take GE courses as follows in order to graduate:

General Education Area	Course Requirement (Two Courses from Each Area)
Global Awareness	GEGA1000 – Macao and Chinese Civilization in a Global Context (compulsory)
	1 course from the list other than GEGA1000
Literature and Humanities	GELH1000 - Chinese Language and Culture (compulsory) OR
	GELH1010 - Chinese Language and Culture (for International Students) (compulsory)
	1 course from the list other than GELH1000 and GELH1010
Saisman and Tashmalaar	GEST1001 – Quantitative Reasoning for Business (compulsory)
Science and Technology	1 course from the list other than GEST1001
	GESB1017 – Law and Society (compulsory) OR
Society and Behaviour	GESB1018 - Law and Society (for International Students) (compulsory)
	1 course from the list other than GESB1017 and GESB1018

CPED1000 is a yearly course.

Students can test out of the Chinese and/or Portuguese language course(s) if they obtain certain qualifications and should enroll course as follows:

- a) Test out of EITHER Chinese Language Course OR Portuguese Language Course: One 3-credit free elective in the first semester of first year of study
- b) Test out of NEITHER Chinese Language Course NOR Portuguese Language Course: CHLL1000 OR PORT1000 in the first semester of first year of study

Test out information: https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/

Students can test out of some or all of the English language courses and are required to take English courses according to assigned level, from the first year of study to the second year of study.

- a) Placement level "E1a": EELC1011 + EELC1008 + EELC1012 + EELC1013
- b) Placement level "E1b": EELC1011 + EELC1012 + EELC1013
- c) Placement level "E2": EELC1012 + EELC1013 + One E4 elective (for Academic English) <in 2nd semester of 2nd year>
- d) Placement level "E3": EELC1013 + One E4 elective (for Academic English) <in 2nd semester of 1st year> + One 3-credit free elective
- e) Placement level "E5": One E5 elective (for English for Specific Academic Purposes) <in 2nd semester of 1st year> + Two 3-credit free electives
- f) Placement level "EngCW": Three 3-credit free electives

Test out information: https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/

Students are required to complete 1 course from Required Elective List B (Analytics and Technology)

Students select one from the following:		
ISOM3025	Business Modeling and Simulation	
ISOM3031**	Forecasting Models in Business	
ISOM3037	Internet of Things and Cloud Computing with Business Applications	

Students are required to take GE courses as follows in order to graduate:

General Education Area	Course Requirement (Two Courses from Each Area)
Global Awareness	GEGA1000 – Macao and Chinese Civilization in a Global Context (compulsory)
	1 course from the list other than GEGA1000
Literature and Humanities	GELH1000 - Chinese Language and Culture (compulsory) OR
	GELH1010 - Chinese Language and Culture (for International Students) (compulsory)
	1 course from the list other than GELH1000 and GELH1010
Science and Technology	GEST1001 – Quantitative Reasoning for Business (compulsory)
	1 course from the list other than GEST1001
Society and Behaviour	GESB1017 – Law and Society (compulsory) OR
	GESB1018 - Law and Society (for International Students) (compulsory)
	1 course from the list other than GESB1017 and GESB1018

CPED1000 is a yearly course.

Students can test out of the Chinese and/or Portuguese language course(s) if they obtain certain qualifications and should enroll course as follows:

- a) Test out of EITHER Chinese Language Course OR Portuguese Language Course: One 3-credit free elective in the first semester of first year of study
- b) Test out of NEITHER Chinese Language Course NOR Portuguese Language Course: CHLL1000 OR PORT1000 in the first semester of first year of study

Test out information: https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/

Students can test out of some or all of the English language courses and are required to take English courses according to assigned level, from the first year of study to the second year of study.

- a) Placement level "E1a": EELC1011 + EELC1008 + EELC1012 + EELC1013
- b) Placement level "E1b": EELC1011 + EELC1012 + EELC1013
- c) Placement level "E2": EELC1012 + EELC1013 + One E4 elective (for Academic English) <in 2nd semester of 2nd year>
- d) Placement level "E3": EELC1013 + One E4 elective (for Academic English) <in 2nd semester of 1st year> + One 3-credit free elective
- e) Placement level "E5": One E5 elective (for English for Specific Academic Purposes) <in 2nd semester of 1st year> + Two 3-credit free electives
- f) Placement level "EngCW": Three 3-credit free electives

Test out information: https://reg.um.edu.mo/current-students/curriculum-model/ug-curriculum-model/languages-and-skills/