

Updated on 24/06/2025

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

First Year - UF1 (2025/2026)

Course Code		Course Title	Credit Units	Course Type	1st sem	2nd sem
1 "Information Technology" Course ****			3	CM	X	
CISC1000	Information Technology Fundamentals and Practices					
1 "Chinese Language / Portuguese Language" Course *			3	CM / FE	X	
CHLL1000	University Chinese					
PORT1000	Portuguese Language I – Introductory Portuguese					
1 Free Elective Course						
CPED1000	Residential College Experiential Learning (Year course)		1	CM	X	
CPED1001 / CPED1002	Physical Education I /II		0.5	CM	X	
1 "English Language" Course***			3	CM / FE	X	
EELC1012	University English II					
EELC1013	University English III					
1 Free Elective Course						
GEST1001	Quantitative Reasoning for Business		3	GE	X	
1 Free Elective Course			3	FE	X	
CPED1001 / CPED1002	Physical Education I / II		0.5	CM		X
1 "English Language" Course***			3	CM / FE		X
E4 English elective	Choose one from the following 3 courses: Academic English: Speaking Academic English: Writing Academic English: Project-based Learning					
E5 English elective	Choose one from the following 3 courses: English Speaking for Academic Research English Writing for Academic Research English Intergrated Skills for Academic Research					
ISOM1004	Applied Calculus		3	CM		X
ISOM1005	Introduction to Business Intelligence and Information		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
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Second Year - UF2 (2026/2027)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
1 "English Language" Course***		3	CM / FE	X	
E4 English elective	Choose one from the following 3 courses: Academic English: Speaking Academic English: Writing Academic English: Project-based Learning				
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	
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 General Education Course		3	GE		X
1 General Education Course		3	GE		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	CM	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 List 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 List 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 Course		3	GE		X
1 Free Elective Course		3	FE		X
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Students are expected to complete 120 credits in order 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
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/>