

For students admitted from academic year 2023/2024 onwards (B-C3-XXXX-X students)

**Bachelor of Science in Business Intelligence and Data Analytics -BIA19**

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.

**First Year - UF1 (2023/2024)**

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
BECO1000	Principles of Microeconomics	3	CM	X	
CISC1000	<b>"Information Technology" Course****</b> Information Technology Fundamentals and Practices	3	CM	X	
<b>1 "Chinese Language / Portuguese Language" Course *</b>		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	
<b>1 "English Language" Course***</b>		3	CM / FE	X	
EELC1012	University English II				
EELC1013	University English III				
1 Free Elective Course					
GEST1001	Quantitative Reasoning for Business	3	GE	X	
ACCT1000	Principles of Financial Accounting	3	CM		X
CPED1001/CPED1002	Physical Education I / II	0.5	CM		X
<b>1 "English Language" Course***</b>		3	CM / FE		X
EELC1013	University English III				
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				
ISOM1005	Introduction to Business Intelligence and Information	3	CM		X
MGMT1000	Principles of Business Management	3	CM		X
1 General Education Course		3	GE		X
		<b>32</b>			

**Second Year - UF2 (2024/2025)**

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
<b>1 "English Language" Course***</b>					
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					
FINC2000	Financial Management	3	CM	X	
ISOM2002	Statistics and Data Analysis	3	CM	X	
ISOM2007	Programming for Business Analytics	3	CM	X	
ISOM3000	Database Management	3	CM	X	
<b>ISOM3016</b>	<b>Computer Networking for Business</b>	<b>3</b>	<b>CM</b>	<b>X</b>	
CPED2001	Residential College Community Team	1	CM		X
ISOM3028	Advanced Computer Programming	3	CM		X
MKTG2000	Principles of Marketing	3	CM		X
1 General Education Course					
1 General Education Course					
1 Required Elective From List 1 @					
		<b>34</b>			

**Third Year - UF3 (2025/2026)**

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
ISOM3015	Big Data Management	3	CM	X	
ISOM3030	Quantitative Decision Analysis	3	CM	X	
ISOM4005	Business Project Management	3	CM	X	
1 Free Elective Course					
1 General Education Course					
ISOM3018	Business Data Mining and Visualization	3	CM		X
<b>ISOM3035</b>	<b>Operations Management</b>	<b>3</b>	<b>CM</b>		<b>X</b>
ISOM3036	Cyber Security and Blockchain	3	CM		X
1 Required Elective From List 2 @					
1 General Education Course					
		<b>30</b>			

**Fourth Year - UF4 (2026/2027)**

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
ISOM3031	Forecasting Models in Business	3	CM	X	
ISOM4008	Machine Learning for Business Intelligence	3	CM	X	
1 General Education Course					
1 Free Elective Course					
ISOM4007	Graduation Project	3	CM		X
1 Required Elective From List 2 @					
1 General Education Course					
1 Free Elective Course					
		<b>24</b>			

Students are expected to complete 120 credits in order to graduate.

**@ One course (3 credits) selected from Required Electives List 1**

Students in Year2 select one from the following:	
ISOM2006	E-Commerce and M-Commerce Strategies
ISOM3002	Analysis and Design of Information Systems

**@ Two course (6 credits) selected from Required Electives List 2**

Students in Year 3 & Year 4 select two from the following:	
ISOM3011	Mobile Application Development
ISOM3012	Website Design and Internet Business Applications
ISOM3014	Advanced Computer Networking for Business
ISOM3025	Business Modeling and Simulation
ISOM3037	Internet of Things and Cloud Computing

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

Global Awareness	GEA1000 – Macao and Chinese Civilization (Compulsory)
	1 course from the list other than GEA1000
Literature and Humanities	GELH1000 – Chinese Language and Culture (Compulsory)
	1 course from the list other than GELH1000
Science and Technology	GEST1001 – Quantitative Reasoning for Business (Compulsory)
	1 course from the list other than GEST1001
Society and Behaviour	GESB1000 – Ethics, Values, Law and Society (Compulsory)
	1 course from the list other than GESB1000 (GESB1001/1002/1003)

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 **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 **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/ugmodel/lang\\_skills/](https://reg.um.edu.mo/current-students/ugmodel/lang_skills/)

\*\*Students can test out of some or all of the 3 English language courses and are required to take English courses according to assigned level, one course in each semester from the first semester of first year of study to the first semester of second year of study.

- a) Placement level "E2": EELC1012 (1st year 1st sem) + EELC1013 (1st year 2nd sem) + E4 English elective (2nd year 2nd sem)
- b) Placement level "E3": EELC1013 (1st year 1st sem) + E4 English elective (1st year 2nd sem) + One 3-credit free electives
- c) Placement level "E5": E5 English elective (1st year 2nd sem) + Two 3-credit free electives
- d) None of the above: Three 3-credit free electives

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