

## For students admitted from academic year 2021/2022 (B-C1-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 FBA General Office for confirmation.

\* **Course Type**    **CM : Compulsory/Major Course**  
                          **GE : General Education Course**  
                          **RE : Required Elective**  
                          **FE : Free Elective**

#### First Year - UF1 (2021/2022)

Course Code	Course Title	Credit Units	* Course Type	1st Sem	2nd Sem
BECO1000	Principles of Microeconomics	3	CM	X	
CPED1000	Residential College Experiential Learning	1	CM	X	X
CPED1001	Physical Education I	0.5	CM	X	
<b>1 "Chinese or Portuguese Language" Course</b>					
CHLL1000	University Chinese	3	CM / FE	X	
PORT1000	Portuguese Language I – Introductory Portuguese				
1 Free Elective					
<b>1 "English Language" Course</b>					
EELC1012	University English II	3	CM/FE	X	
EELC1013	University English III				
1 Free Elective					
GEST1001	Quantitative Reasoning for Business	3	GE	X	
MGMT1000	Principles of Business Management	3	CM	X	
ACCT1000	Principles of Financial Accounting	3	CM		X
<b>1 "Information Technology" Course</b>					
CISC1000	Information Technology Fundamentals and Practices	3	CM		X
CPED1002	Physical Education II	0.5	CM		X
<b>1 "English Language" Course</b>					
EELC1013	University English III	3	CM		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				
ISOM1005	Introduction to Business Intelligence	3	CM		X
1 General Education Course		3	GE		X
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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:

- Test out **EITHER** Chinese Language Course **OR** Portuguese Language Course : One 3-credit free elective in the first semester of first year of study
- 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 from the first semester of first year of study to the first semester of second year of study.

- a) Placement level "E1a ": EELC1011 + EELC1008 + EELC1012 + EELC1013
- b) Placement level "E1b": E EELC1011 + EELC1012 + EELC1013
- c) Placement level "E2": EELC1012 + EELC1013 + E4 English elective
- d) Placement level "E3": EELC1013 + E4 English elective(in 2nd semester of Year One) + One 3-credit free electives
- e) Placement level "E5": E5 English elective (in 2nd semester of Year One) + Two 3-credit free electives
- f) 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/>

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 ( <b>compulsory</b> )
	1 course from the list other than GEGA1000
Literature and Humanities	GELH1000 – Chinese Language and Culture ( <b>compulsory</b> )
	1 course from the list other than GELH1000
Science and Technology	GEST1001 – Quantitative Reasoning for Business ( <b>compulsory</b> )
	1 course from the list other than GEST1001
Society and Behaviour	GESB1000 – Ethics, Values, Law and Society ( <b>compulsory</b> )
	1 course from the list other than GESB1000 (GESB1001/1002/1003)

### Second Year - UF2 (2022/2023)

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					
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	
	1 General Education Course	3	GE	X	
CPED2001	Residential College Community Team	3	CM		X
ISOM3016	Computer Networking for Business	3	CM		X
ISOM3028	Advanced Computer Programming	3	CM		X
MKTG2000	Principles of Marketing	3	CM		X
	1 General Education Course	3	GE		X
	1 Required Elective From List 1 @	3	RE		X
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### Third Year - UF3 (2023/2024)

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	
ISOM3035	Operations Management	3	CM	X	

ISOM4005	Business Project Management	3	CM	X	
	1 Free Elective Course	3	FE	X	
ISOM3018	Business Data Mining and Visualization	3	CM		X
ISOM3036	Cyber Security and Blockchain	3	CM		X
	1 Required Elective From List 2 @	3	RE		X
	1 General Education Course	3	GE		X
	1 General Education Course	3	GE		X
		<b>30</b>			

**Fourth Year - UF4 (2024/2025)**

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	3	GE	X	
	1 Free Elective Course	3	FE	X	
ISOM4007	Graduation Project	3	CM		X
	1 Required Elective From List 2 @	3	RE		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.*

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

<b>Students in Year 2 select one from the following:</b>	
ISOM2006	E-Commerce and M-Commerce Strategies
ISOM3002	Analysis and Design of Information Systems

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

<b>Students in Year 3 &amp; Year 4 select two from the following:</b>	
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