E1 Plan A

For students admitted from academic year 2022/2023 onwards (B-C2-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 (2022/2023)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
BECO1000	Principles of Microeconomics	3	CM	X	
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)	0.5	CM - CPE	X	
CPED1001/CPED1002	Physical Education I / II	0.5	CM	X	
2 "English Language" Courses		3	CM - L & S	X	
EELC1011	University English I				
EELC1008	Grammer and Writing Improvement I	3	FE	X	
GEST1001	Quantitative Reasoning for Business	3	GE	X	
ACCT1000	Principles of Financial Accounting	3	CM		X
CISC1000	**"Information Technology" Course****** Information Technology Fundamentals and Practices	3	CM		X
CPED1000	Residential College Experiential Learning (Year course)	0.5	CM - CPE		X

E1 Plan B

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
BECO1000	Principles of Microeconomics	3	CM	X	
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)	0.5	CM - CPE	X	
CPED1001/CPED1002	Physical Education I / II	0.5	CM - CPE	X	
1 "English Language" Course		3	CM - L & S	X	
EELC1011	University English I				
GEST1001	Quantitative Reasoning for Business	3	GE	X	
1 General Education Course		3	GE	X	
ACCT1000	Principles of Financial Accounting	3	CM		X
CISC1000	**"Information Technology" Course****** Information Technology Fundamentals and Practices	3	CM		X
CPED1000	Residential College Experiential Learning (Year course)	0.5	CM - CPE		X

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
CPED1001/CPED1002	Physical Education I / II	0.5	CM - CPE		X
1 "English Language" Course*		3	CM / FE		X
EELC1012	University English II				
ISOM1005	Introduction to Business Intelligence and Information	3	CM		X
1 General Education Course		3	GE		X
		32			

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
CPED1001/CPED1002	Physical Education I / II	0.5	CM - CPE		X
1 "English Language" Course*		3	CM / FE		X
EELC1012	University English II				
ISOM1005	Introduction to Business Intelligence and Information	3	CM		X
MGMT1000	Principles of Business Management	3	CM		X
		32			

Second Year - UF2 (2023/2024)

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
EELC1013	University English III	3	CM / FE	X	
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	1	CM		X
ISOM3016	Computer Networking for Business	3	CM		X
ISOM3028	Advanced Computer Programming	3	CM		X
MGMT1000	Principles of Business Management	3	CM		X
MKTG2000	Principles of Marketing	3	CM		X
1 Required Elective From List 1 @		3	RE		X
		34			

Course Code	Course Title	Credit Units	Course Type	1st sem	2nd sem
EELC1013	University English III	3	CM / FE	X	
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	1	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 Required Elective From List 1 @		3	RE		X
1 General Education Course		3	GE		X
		34			

Third Year - UF3 (2024/2025)

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
		30			

Fourth Year - UF4 (2025/2026)

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
		24			

Students are expected to complete 120 credits in oder 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	GEGA1000 – Macao and Chinese Civilization (Compulsory)
	1 course from the list other than GEGA1000
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 Be	GESB1000 – Ethics, Values, Law and Society (Compulsory)
	1 course from the list other than GESB1000 (GESB1001/1002/1003)

Society and Beh	GESB1000 – Ethics, Values, Law and Society (Compulsory)
	1 course from the list other than GESB1000 (GESB1001/1002/1003)

CPED1000 is a <u>yearly</u> 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/

**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 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/

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