For students admitted from academic year 2020/2021 onwards (B-C0-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 (2020/2021)

| | Course Code | Course Title | Credit Units | Course Type |
|-----------------|----------------------------------|---|--------------|-------------|
| | BECO1000 | Principles of Microeconomics | 3 | СМ |
| | CHLL1000 PORT1000 | "Chinese Language / Portuguese Language" Course * University Chinese Portuguese Language I – Introductory Portuguese Tree Elective Course | 3 | CM / FE |
| | CPED1000 | Residential College Experiential Learning (Year course) | 1 | CM |
| | CPED1001 | Physical Education I | 0.5 | СМ |
| 1st Semester | CPED1003 | Communication Skills & Leadership (Semester course)** | 1 | СМ |
| | EELC1001 EELC1002 EELC1003 | 1 "English Language" Course*** Interactive English I Interactive English II Academic English 1 Free Elective Course | 3 | CM / FE |
| | GEST1001 | Quantitative Reasoning for Business | 3 | GE |
| | MGMT1000 | Principles of Business Management | 3 | СМ |
| | ACCT1000 | Principles of Financial Accounting | 3 | CM |
| | CISC1000 | "Information Technology" Course**** Information Technology Fundamentals and Practices | 3 | СМ |
| | CPED1002 | Physical Education II | 0.5 | CM |
| 2nd Semester | EELC1002 EELC1003 | 1 "English Language" Course*** Interactive English II Academic English 1 Free Elective Course | 3 | CM/FE |
| | ISOM1005 | Introduction to Business Intelligence | 3 | CM |
| | | 1 General Education Course | 3 | GE |
| | | | 33 | |

Second Year - UF2 (2021/2022)

| | Course Code | Course Title | Credit Units | Course Type |
|----------|-------------|------------------------------------|--------------|-------------|
| | | 1 "English Language" Course*** | | |
| | EELC1003 | Academic English | 3 | CM / FE |
| | | 1 Free Elective Course | | |
| 1st | FINC2000 | Financial Management | 3 | CM |
| Semester | ISOM2007 | Programming for Business Analytics | 3 | CM |
|] | ISOM2002 | Statistics and Data Analysis | 3 | CM |
|] | ISOM3000 | Database Management | 3 | CM |
| | | 1 General Education Course | 3 | GE |
| | ISOM3016 | Computer Networking for Business | 3 | CM |
| | ISOM3028 | Advanced Computer Programming | 3 | CM |
|] | MKTG2000 | Principles of Marketing | 3 | CM |
| | | 1 General Education Course | 3 | GE |
| | | 1 Required Elective From List 1 @ | 3 | RE |
| | - | | 33 | |

Third Year - UF3 (2022/2023)

| | | Course Code | Course Title | Credit Units | Course Type |
|--|-----------------|-------------|--|--------------|-------------|
| | | ISOM3015 | Big Data Management | 3 | СМ |
| | | ISOM4005 | Business Project Management | 3 | СМ |
| | 1st Semester | ISOM3035 | Operations Management | 3 | СМ |
| | Jennester | ISOM3030 | Quantitative Decision Analysis | 3 | СМ |
| | | | 1 Free Elective Course | 3 | FE |
| | | ISOM3018 | Business Data Mining and Visualization | 3 | СМ |
| | | ISOM3036 | Cyber Security and Blockchain | 3 | СМ |
| | 2nd Semester | | 1 Required Elective From List 2 @ | 3 | RE |
| | | | 1 General Education Course | 3 | GE |
| | | | 1 General Education Course | 3 | GE |
| | | - | - | 30 | |

Fourth Year - UF4 (2023/2024)

| | Course Code | Course Title | Credit Units | Course Type |
|----------|-------------|--|--------------|-------------|
| | ISOM4008 | Machine Learning for Business Intelligence | 3 | CM |
| 1st | ISOM3031 | Forecasting Models in Business | 3 | CM |
| Semester | | 1 General Education Course | 3 | GE |
| | | 1 Free Elective Course | 3 | FE |
| | ISOM4007 | Graduation Project | 3 | CM |
| 2nd | | 1 Required Elective From List 2 @ | 3 | RE |
| Semester | | 1 General Education Course | 3 | GE |
| | | 1 Free Elective Course | 3 | FE |
| | | | 24 | |

Note: 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: | | |
|--|--|--|
| ISOM3002 | Analysis and Design of Information Systems | |
| ISOM2006 | E-Commerce and M-Commerce Strategies | |

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

| © 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | |
|--|---|--|
| 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) | | |
|-----------------------|---|--|--|
| Giobai Awareness | 1 course from the list other than GEGA1000 | | |
| Literature and | GELH1000 – Chinese Language and Culture (Compulsory) | | |
| Humanities | 1 course from the list other than GELH1000 | | |
| Science and | GEST1001 – Quantitative Reasoning for Business (Compulsory) | | |
| Technology | 1 course from the list other than GEST1001 | | |
| Society and Behaviour | GESB1000 – Ethics, Values, Law and Society (Compulsory) | | |
| Society and Benaviour | 1 course from the list other than GESB1000 (GESB1001/1002/1003) | | |

- * 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
- ** CPED1003 consists of 2 components: Online Lectures, plus Communication and Leadership Activities.

This course can be studied and completed in any year level, and enrollment record will be shown after course completion.

- *** Students can test out of some or all of the 3 English language courses but still are required to take English courses should enroll course as follow:
 - a) Placement level "IE1": EELC1001 + EELC1002 + EELC1003
 - b) Placement level "IE2": EELC1002 + EELC1003 + One 3-credit free elective course
 - c) Placement level "AE": EELC1003 + Two 3-credit free elective courses
 - d) None of the above: Three 3-credit free elective courses

**** Students CANNOT test out of the IT course. They are required to take the IT course and complete the test online within the semester.

If a student successfully passes the online test, he/she will get a pass grade. Otherwise, he/she will be required to retake the test within the semester or retake the course in the following semester(s).

Test out information: https://reg.umac.mo/current-students/ugmodel/lang_skills/