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| **Insurance, Financial and Actuarial Analysis****Applicable to students admitted in 2023-24** |
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| **Major Programme Requirement** |
| Students are required to complete a minimum of 78 units of courses as follows: |
|  |  | Units |
| 1. | Faculty Package: | 9 |
|  | ACCT1111, DOTE[DSME]1030, 1040 |  |
|  |  |  |
| 2. | Required Courses: |  |
| (a) | MATH1010[a], 1540 | 6 |
| (b) | CSCI1510 or 1520 or 1540 or 1580 | 3 |
| (c) | ACCT2121, FINA2010, 2200, 2220, 2230, 3080, 3210, 3221, 3222, 3230, 3240, 3290, MGNT1020 | 39 |
|  |  |  |
| 3. | Elective Courses: |  |
| (a) | 18 units of courses from the following: | 18 |
|  | ACCT3151#, 3161#, CSCI2100# or 2520#, DOTE[DSME]2051#, FINA3010, 3030, 3070, 3250 or 4110, 3260, 3295, 4030, 4120, 4140, 4150, 4160, 4211, 4215, 4221, 4280, IBBA3040, MATH2010#, MKTG2010#, MGNT2511, 2512, 2611#, RMSC4001#, STAT3007# |  |
| (b) | 3 units of Capstone course from the following: | 3 |
|  | FINA4270, 4290, 4291, MGNT4010# |  |
|  | **Total:** | **78** |
| Explanatory Notes: |
| 1. | FINA courses at 2000 and above level as included in the Major Programme Requirement as well as those labeled as # will be included in the calculation of Major GPA for honours classification. |
| [a] | Students are required to take MATH1530 before taking MATH1010, except those who pass the Mathematics Placement Test arranged by the Programme. |
| [ ] | Subject area code “DSME” changed to “DOTE” with effect from 2024-25. |
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|  | **Recommended Course Pattern** | Units |
| **First Year of Attendance** | 1st term |  |
| Faculty Package: ACCT1111, DOTE[DSME]1030 | 6 |
| Major Required: MATH1010 | 0-3 |
| Major Elective(s):  |  |
| 2nd term |  |
| Faculty Package: DOTE[DSME]1040 | 3 |
| Major Required: FINA2010, 2200, MATH1010 (if not taken) | 6-9 |
| Major Elective(s):  |  |
| **Second Year of Attendance** | 1st term |  |
| Major Required: FINA2220, 3210, MATH1540 | 9 |
| Major Elective(s):  |  |
| 2nd term |  |
| Major Required: ACCT2121, FINA2230, 3080, 3221, 3230 | 15 |
| Major Elective(s):  |  |
| **Third Year of Attendance** | 1st term |  |
| Major Required: CSCI1510 or 1520 or 1540 or 1580, FINA3222, 3240, 3290 | 12 |
| Major Elective(s):  |  |
| 2nd term |  |
| Major Required:  |  |
| Major Elective(s): two courses | 6 |
| **Fourth Year of Attendance** | 1st term |  |
| Major Required: MGNT1020 | 3 |
| Major Elective(s): two courses | 6 |
| 2nd term |  |
| Major Required:  |  |
| Major Elective(s): three courses | 9 |
| **Total (including Faculty Package):** | **78** |

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| **Course List** |
| *Course Code* | *Course Title* | *Unit(s)* |
| Required courses |
| ACCT1111 | Foundations in Financial Accounting | 3 |
| ACCT2121 | Introductory Management Accounting | 3 |
| CSCI1510 | Computer Principles and C Programming | 3 |
| CSCI1520 | Computer Principles and C++ Programming | 3 |
| CSCI1540 | Fundamental Computing With C++ | 3 |
| CSCI1580 | Visual Programming | 3 |
| DOTE[DSME]1030 | Economics for Business Studies I | 3 |
| DOTE[DSME]1040 | Economics for Business Studies II | 3 |
| FINA2010 | Financial Management | 3 |
| FINA2200 | Introduction to Actuarial Science | 3 |
| FINA2220 | Quantitative Methods for Actuarial Analysis I | 3 |
| FINA2230 | Quantitative Methods for Actuarial Analysis II | 3 |
| FINA3080 | Investment Analysis and Portfolio Management | 3 |
| FINA3210 | Risk Management and Insurance | 3 |
| FINA3221 | Basic Long-term Actuarial Mathematics | 3 |
| FINA3222 | Basic Short-term Actuarial Mathematics | 3 |
| FINA3230 | Life and Health Insurance | 3 |
| FINA3240 | Corporate Property and Liability Insurance | 3 |
| FINA3290 | Linear Models for Actuaries | 3 |
| MATH1010 | University Mathematics | 3 |
| MATH1530 | Basic Mathematics for Business and Social Sciences | 3 |
| MATH1540 | University Mathematics for Financial Studies | 3 |
| MGNT1020 | Management | 3 |
| Elective courses |
| *Other Electives* |
| ACCT3151 | Business Law | 3 |
| ACCT3161 | Taxation | 3 |
| CSCI2100 | Data Structures | 3 |
| CSCI2520 | Data Structures and Applications | 3 |
| DOTE[DSME]2051 | Business Information Systems | 3 |
| FINA3010 | Financial Markets | 3 |
| FINA3030 | Management of Financial Institutions | 3 |
| FINA3070 | Corporate Finance: Theory and Practice | 3 |
| FINA3250 | Derivatives for Actuaries I | 3 |
| FINA3260 | Internship Experience | 1 |
| FINA3295 | Advanced Statistical Modeling for Insurance and Finance | 3 |
| FINA4030 | Selected Topics in Finance | 3 |
| FINA4110 | Options and Futures | 3 |
| FINA4120 | Fixed Income Securities Analysis | 3 |
| FINA4140 | Computational Finance | 3 |
| FINA4150 | Quantitative Methods for Financial Derivatives | 3 |
| FINA4160 | Intermediate Financial Theory | 3 |
| FINA4211 | Advanced Long-term Actuarial Mathematics | 3 |
| FINA4215 | Introduction to Actuarial Computing Using Prophet | 1 |
| FINA4221 | Advanced Short-term Actuarial Mathematics | 3 |
| FINA4280 | Derivatives for Actuaries II | 3 |
| IBBA3040 | Business Lectures Series | 1 |
| MATH2010 | Advanced Calculus I | 3 |
| MKTG2010 | Marketing Management | 3 |
| MGNT2511 | Global Experiential Learning I | 1 |
| MGNT2512 | Global Experiential Learning II | 1 |
| MGNT2611 | Business Sustainability  | 2 |
| RMSC4001 | Simulation Methods for Risk Management Science and Finance | 3 |
| STAT3007 | Introduction to Stochastic Processes | 3 |
| *Capstone Courses* |
| FINA4270 | Research Project in Insurance, Financial and Actuarial Analysis | 3 |
| FINA4290 | Actuarial Internship | 3 |
| FINA4291 | Internship in Insurance and Financial Institutions | 3 |
| MGNT4010 | Strategic Management | 3 |

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