

**Insurance, Financial and Actuarial Analysis**  
**Applicable to students admitted in 2022-23**

**Major Programme Requirement**

Students are required to complete a minimum of 78 units of courses as follows:

	Units
1. Faculty Package: ACCT1111, DSME1030, 1040	9
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: ACCT3151#, 3161#, CSCI2100# or 2520#, DSME2051#, 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#	18
(b) 3 units of Capstone course from the following: FINA4270, 4290, 4291, MGNT4010#	3
<b>Total:</b>	<b>78</b>

**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.

	Recommended Course Pattern	Units
<b>First Year of Attendance</b>	1 <sup>st</sup> term Faculty Package: ACCT1111, DSME1030 Major Required: MATH1010 Major Elective(s):	6 0-3
	2 <sup>nd</sup> term Faculty Package: DSME1040 Major Required: FINA2010, 2200, MATH1010 (if not taken) Major Elective(s):	3 6-9
<b>Second Year of Attendance</b>	1 <sup>st</sup> term Major Required: FINA2220, 3210, MATH1540 Major Elective(s):	9
	2 <sup>nd</sup> term Major Required: ACCT2121, FINA2230, 3080, 3221, 3230 Major Elective(s):	15
<b>Third Year of Attendance</b>	1 <sup>st</sup> term Major Required: CSCI1510 or 1520 or 1540 or 1580, FINA3222, 3240, 3290	12

	Major Elective(s): 2 <sup>nd</sup> term Major Required: Major Elective(s): two courses	6
<b>Fourth Year of Attendance</b>	1 <sup>st</sup> term Major Required: MGNT1020 Major Elective(s): two courses	3 6
	2 <sup>nd</sup> term Major Required: Major Elective(s): three courses	9
	<b>Total (including Faculty Package):</b>	<b>78</b>

<b>Course List</b>		
<i>Course Code</i>	<i>Course Title</i>	<i>Unit(s)</i>
<b>Required courses</b>		
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
DSME1030	Economics for Business Studies I	3
DSME1040	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
<b>Elective courses</b>		
<i>Other Electives</i>		
ACCT3151	Business Law	3
ACCT3161	Taxation	3
CSCI2100	Data Structures	3
CSCI2520	Data Structures and Applications	3
DSME2051	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
<i>Capstone Courses</i>		
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