

Syllabus for Actuarial Science

Semester	Papers	Credit
First	MSMT 101 Calculus with Analytic Geometry I	3
	MSST 101 Statistics & Data Analysis I	3
	MSCS 101 Fundamentals of Computer Science	3
	MSEN 101 Communication skill I	3
	MSCS 102 Mathematics Software (MATLAB)	3
	Total	15
Semester	Papers	Credit
Second	MSMT 151 Calculus with Analytic Geometry II	3
	MSMT 152 Linear Algebra with Application I	3
	MSST 151 Statistics & Data Analysis II	3
	MSCS151 Introduction to Programming I	3
	MSEN 151 Communication Skill II	3
Total	15	

Semester	Papers	Credit
Third	MSMT 201 Linear Algebra with Application II	3
	MSST 201 Theory of Probability	3
	MSCS 201 Introduction to Programming II	3
	MSMT 202 Differential Equations	3
	MSMT 203 Gen. Logic	3
Total	15	
Semester	Papers	Credit
Fourth	MSST 252 Mathematical Statistics	3
	MSST 251 Applied Probability Models	3
	MSCS 251 Data Structure and Algorithm	3
	MSMT 252 Mathematical Modeling	3
	MSMT 253 Discrete Math	3
Total	15	

Major in Actuarial Science

Semester	Papers	Credit
	MSMT 301 Financial Mathematics	3
	MSAS 301 Actuarial Models I: Life contingent I	3

Fifth	MSAC 301 Financial Accounting	3
	MSEC 301 : Nepalese Economy	3
	MSNE 301 Nepali literature I	3
Total		15
Semester	Papers	Credit
Sixth	MSAS 351 Actuarial Models II: Life contingent II	3
	MSMN 351 Investments	3
	MSEC 351 : Principles of Economics I (micro)	3
	MSAC 351 Managerial Accounting	3
	MSNE 351 Nepali literature II	3
Total		15
Semester	Papers	Credit
Seventh	MSAS 401 Actuarial Models III Derivative markets	3
	MSMN 401 Introduction to Risk and Insurance	3
	MSEC 401 : Principles of Economics II (macro)	3
	MSEN 401 Tech. Writing Com. English	3
	MSHU 401 Anthropology I	3

	MSPR 401 Project	3
Total		18
Semester	Papers	Credit
Eighth	MSAS 451 Actuarial Modeling : Loss Models	3
	MSMN 451 Intermediate Business Finance	3
	MSST 451 Regression and Time Series Analysis	3
	MSHU 451 Anthropology II	3
	MSIN 451 Internship	3
Total		15