

Sample 4-yr Plan of Study – BS Degree in Actuarial Science – MSU

120 credits needed to graduate Minimum 2.0 overall GPA; Minimum 2.0 major courses GPA

		First Year		Second Year		Third Year		Fourth Year		Total Credits
		Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	
Major Requirements (Mathematics)	course title (credits)	MTH 132 Calculus I 3	MTH 133 Calculus II 4	MTH 234 Multivariable Calculus 4	MTH 299 Transitions 4	MTH 235 Differential Equations 3		MTH 458 Fin Math for Actuaries 3	MTH 491A Actuarial Internship* 3	34
	course title (credits)			MTH 360 Theory of Math Interest 3	MTH 361 Theory of Math Interest II 3	MTH 309 Linear Algebra 3		MTH491B Teamwork Experience 1		
Major Requirements (Statistics)	course title (credits)				STT 441 Probability 3		STT 442 Statistics 3	STT 455 Actuarial Models I 3	STT 456 Actuarial Models II 3	15
	course title (credits)								STT 459 Construction of Act Models 3	
Major Requirements (Finance, Econ, Computer Sci)	course title (credits)	ACC 230 Survey of Accounting 3	EC 201 Intro to Micro Economics 3			FI 311 Financial Management 3	FI 321 Theory of Investments 3			19
	course title (credits)					EC 202 Intro to Macro Economics 3	CSE 231 Intro to Programming 4			
University Requirements	course title (credits)	WRA 1** Writing Course 4	IAH 20* (Arts & Humanities) 4			ISS 2** (Integrated Soc Sci) 4	ISS 3** (Integrated Soc Sci) 4	IAH 211+ (Arts & Humanities) 4		20
Natural Science Requirements	course title (credits)	CEM 141/161 General Chem/Lab 4+1	CEM 142 Gen & Inorg Chem 3	Any 1 of Biology electives 3	PHY 184 Physics II 4					19
	course title (credits)			PHY 183 Physics I 4						
Electives	course title (credits)				Exam FM/2 Prep course (highly rec) 1		Exam P/1 Prep course (highly rec) 2	ELEC 3	ELEC 7	13
Total credits		15	14	14	15	16	16	14	16	120

* Internship is traditionally held over summer between 3rd and 4th year and should be the primary choice. However, for those unable to secure an internship, an advanced course in Mathematics, Statistics, Finance or Computer Science may be substituted to fulfil the requirement.