PURDUE UNIVERSITY

Actuarial Science Honors
College of Science

MATH-BS
Code-ASHO
120 credits

Departmental/Program Major Courses (90-116 credits)

Required Major Courses (63-66 credits): Average GPA in courses must be 2.50 [excluding Calculus I, II, III] AND B or higher in major courses excluding MGMT 20000 and 20100 AND 3.5 Average GPA in major courses mark with a •

_____	(4-5)	Calculus I Option – Select from MA 16100, MA 16500 ***(satisfies Quantitative Reasoning for core)*** cc
_____	(4-5)	Calculus II Option – Select from MA 16200, MA 16600 ***(satisfies Quantitative Reasoning for core)***
_____	(4-5)	Calculus III Option – Select from MA 26100, MA 27101 ***(satisfies Quantitative Reasoning for core)***
_____	(3)	MA 35100 Elementary Linear Algebra
_____	(4)	MA 37300 Financial Mathematics ***(satisfies Multidisciplinary Experience)*** cc
_____	(3)	MA/STAT 41600 Probability cc
_____	(4)	STAT 47201 Actuarial Models- Life Contingencies•
_____	(3)	STAT 41700 Statistical Theory•
_____	(3)	STAT 47301 Introduction To Arbitrage-Free Pricing Of Financial Derivatives•
_____	(4)	MA 36600 Differential Equations
_____	(3)	STAT 47900 Loss Models•
_____	(3)	STAT 51200 Applied Regression Analysis
_____	(3)	STAT 42000 Introduction To Time Series
_____	(3)	MGMT 20000 Introductory Accounting
_____	(3)	MGMT 20100 Management Accounting I
_____	(3)	MGMT 31000 Financial Management or MGMT 30400 Introduction To Financial Management
_____	(3)	MGMT 41100 Investment Management
_____	(3)	ECON 25100 Microeconomics ***(satisfies General Education Option)***
_____	(3)	ECON 25200 Macroeconomics

Program Requirement (0 credits): Documentation of passing two exams given by the Society of Actuaries

_____	(0)	EXAM 1: _____
_____	(0)	EXAM 2: _____

Other Departmental /Program Course Requirements (27-50 credits)

_____	Met within Major	Calculus I Option – Select from MA 16100, MA 16500 ***(satisfies Quantitative Reasoning for core)*** cc
_____	Met within Major	Calculus II Option – Select from MA 16200, MA 16600 ***(satisfies Quantitative Reasoning for core)***
_____	(3-4)	ENGL 10600 or ENGL 10800 - ***(satisfies Written Communication and Information Literacy for core)***
_____	(0-4)	Language I Option* ***(Select courses COULD satisfy Human Cultures Humanities for core)***
_____	(0-4)	Language II Option* ***(Select courses COULD satisfy Human Cultures Humanities for core)***
_____	(0-4)	Language III/Culture/Diversity Option****Select courses COULD satisfy Human Cultures Humanities for core)***
_____	(3-6)	Technical Writing Option and Technical Presenting Option (***Select courses COULD satisfy Oral Communication for core)***
_____	(3-4)	Laboratory Science I Option ***(satisfies Science Selective for core)***
_____	(3-4)	Laboratory Science II Option ***(satisfies Science Selective for core)***
_____	(3)	General Education I Option ***(Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core)***
_____	(3)	General Education II Option ***(Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core)***
_____	Met within Major	General Education II Option ***(Select courses COULD satisfy Human Culture Behavioral/Social Science or Humanities for core)***
_____	(3)	STAT 35000 Introduction To Statistics
_____	(3-4)	Computing Option
_____	(0-4)	Teambuilding and Collaboration Experience*
_____	(3)	Great Issues Option
_____	Met within Major	Multidisciplinary Experience* ***(Select courses COULD satisfies Science, Technology, and Society Selective for core)***

*Requirement may be met with a zero credit experiential learning option. See your advisor for more information

Electives (4-30 credits)

_____ ( ) _____ _____ ( ) _____ _____ ( ) _____ _____ ( ) _____

University Core Requirements

Human Cultures Humanities	☐	_____	*Science, Technology & Society Selective*	☐	_____
Human Cultures Behavioral/Social Science	☐	_____	*Written Communication*	☐	_____
Information Literacy	☐	_____	*Oral Communication*	☐	_____
Science Selective	☐	_____	*Quantitative Reasoning*	☐	_____
Science Selective	☐	_____			

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The student is ultimately responsible for knowing and completing all degree requirements.

(Degree Works) MyPurduePlan is knowledge source for specific requirements and completion

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Revised 2/2016 (effective Fall 2016)

Actuarial Science Honors

Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Option [cc]	ALEKS 85	4-5	Calculus II Option	Calculus I, C- or higher
3-4	ENGL 10600/10800		4	MA 37300 [cc] Financial Mathematics	Calculus I, C- or higher
3-4	Language I Option		3-4	Computing Option (CS 17700 & meets Teambuilding & Collaboration)	
2	Free Elective (MA/STAT 17000)	Co-req Calc I	3-4	Language II Option	Language 10100
3	Free Elective				
			1	Free Elective	
15-18			**15-18**		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4-5	Calculus III Option	Calculus II, C- or higher	3	MA 35100 Elementary Linear Algebra	Calculus III, C- or higher
3	MGMT 20000 Introductory Accounting		3	MA/STAT 41600 [cc] Probability	Calculus III, C- or higher
3	ECON 25100 Microeconomics		3	MGMT 20100 Management Accounting I	MGMT 20000, C- or higher
3	STAT 35000 Introduction To Statistics	Calculus II, C- or higher	3	ECON 25200 Macroeconomics	
3	Language III/Culture/Diversity Option	See Course Info	3-6	Technical Writing Option and Technical Presenting Option (COM 21700)	
16-17			**15-18**		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	STAT 47201• Actuarial Models- Life Contingencies	MA 37300 and MA/STAT 41600, each C- or better	3	STAT 47301• Introduction To Arbitrage-Free Pricing Of Financial Derivatives	MA 37300 and MA/STAT 41600, each C- or better
3	STAT 41700• Statistical Theory	STAT 35000 and MA/STAT 41600, each C- or higher	3-4	Laboratory Science II Option	Lab Sci Option I
3	MGMT 31000 or MGMT 30400	ECON 25100 & MGMT 20100 & STAT 35000 or STAT 41600, C- or higher / MGMT 30400 no restrictions	3	General Education I Option	
3-4	Laboratory Science I Option		3	Free Elective	
2	Free Elective		3	Free Elective	
15-16			**15-16**		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
4	MA 36600 Differential Equations	MA 35100, C- or higher/ may be concurrent	3	STAT 42000 Introduction To Time Series	STAT 35000 and MA/STAT 41600, each C- or higher
3	STAT 51200 Applied Regression Analysis	Jr/Sr Standing; STAT 35000, C- or higher	3	Great Issue Option	Jr/Sr Standing; may require COM or ENGL
3	MGMT 41100 Investments Management	MGMT 31000 or MGMT 30400, C or higher	3	General Education II Option	
3	Free Elective (Science, Technology & Society Selective Course)		3	STAT 47900• Loss Models	MA/STAT 41600 and STAT 41700, each C- or higher
2-3	Free Elective		2	Free Elective (STAT 49000 - Life Contingencies II)	STAT 47201
15-16			**14**		

[cc] Identified as a critical course.

Students must earn a 2.5 average GPA among required MA/STAT/MGMT/ECON courses excluding Calculus I, II, III, and STAT 35000 AND A or B in major courses excluding MGMT 20000 and 20100 AND 3.5 Average GPA in major courses marked with a • and pass two SOA exams.

120 semester credits required for Bachelor of Science degree.

3.3 Graduation GPA required for Bachelor of Science degree.

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Revised 2/2016 (effective Fall 2016)