

**Departmental/Program Major Courses (96-115 credits)**

**Required Major Courses** (51 credits): Average GPA in courses must be 2.50 AND A or B in major courses excluding MGMT 20000 and 20100 AND 3.5 Average GPA in \*major courses

- \_\_\_\_\_ (3) MA 35100 Elementary Linear Algebra
- \_\_\_\_\_ (4) MA 37300 Financial Mathematics *(satisfies Multidisciplinary)*
- \_\_\_\_\_ (3) MA/STAT 41600 Probability
- \_\_\_\_\_ (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 Selective)*
- \_\_\_\_\_ (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 (45-64credits)**

- \_\_\_\_\_ (4-5) Calculus I Selective – Select from MA 16100, MA 16500 *(satisfies Quantitative Reasoning for core)*
- \_\_\_\_\_ (4-5) Calculus II Selective – Select from MA 16200, MA 16600, MA 17300, MA 18100 *(satisfies Quantitative Reasoning for core)*
- \_\_\_\_\_ (4-5) Calculus III Selective – Select from MA 26100, MA 17400, MA 18200, MA 27100 *(satisfies Quantitative Reasoning for core)*
- \_\_\_\_\_ (3-4) ENGL 10600 or ENGL 10800 - *(satisfies Written Communication and Information Literacy for core)*
- \_\_\_\_\_ (3-4) Language I Selective – [LINK](#)
- \_\_\_\_\_ (3-4) Language II Selective – [LINK](#)
- \_\_\_\_\_ (3-4) Language and Culture III Selective – [LINK](#) *(Select courses COULD satisfy Human Cultures Humanities for core)*
- \_\_\_\_\_ (0-3) Technical Writing Selective [LINK](#) *(Select courses COULD satisfy Oral Communication for core)*
- \_\_\_\_\_ (0-3) Technical Presenting Selective [LINK](#) *(Select courses COULD satisfy Oral Communication for core)*
- \_\_\_\_\_ (3-4) Laboratory Science I Selective [LINK](#) *(satisfies Science Selective for core)*
- \_\_\_\_\_ (3-4) Laboratory Science II Selective [LINK](#) *(satisfies Science Selective for core)*
- \_\_\_\_\_ (3) General Education I Selective [LINK](#) *(Select courses COULD satisfy Human Culture Behavioral/Social Science for core)*
- \_\_\_\_\_ (3) General Education II Selective [LINK](#) *(Select courses COULD satisfy Human Culture Behavioral/Social Science for core)*
- \_\_\_\_\_ (3) STAT 35000 Introduction To Statistics
- \_\_\_\_\_ (3-4) Computing Selective [LINK](#)
- \_\_\_\_\_ (0-3) Teambuilding Experience [LINK](#)
- \_\_\_\_\_ (3) Great Issues Selective [LINK](#)

**Electives (5-24 credits)**

\_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_ ( ) \_\_\_\_\_

**University Core Requirements [LINK](#)**

Human Cultures Humanities	<input type="checkbox"/>	_____	Science, Technology & Society Selective	<input type="checkbox"/>	_____
Human Cultures Behavioral/Social Science	<input type="checkbox"/>	_____	Written Communication	<input type="checkbox"/>	_____
Information Literacy	<input type="checkbox"/>	_____	Oral Communication	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____	Quantitative Reasoning	<input type="checkbox"/>	_____
Science Selective	<input type="checkbox"/>	_____			

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

**Degree Works is knowledge source for specific requirements and completion**

### Actuarial Science Honors

<http://www.math.purdue.edu/~rcp/Plans.pdf>

#### Suggested Arrangement of Courses:

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Selective	ALEKS 75	4-5	Calculus II Selective	Calculus I
3-4	ENGL 10600/10800		4	MA 37300	Calculus I
3-4	Language I Selective		3-4	Computing Selective	
2	Free Elective MA/STAT 17000	Co-req Calc I	3-4	Language II Selective	Language 10100
3	Free Elective		0	Teamwork Experience	
<b>15-18</b>			<b>14-17</b>		

Credits	Fall 2nd Year	Prerequisite	Credits	Spring 2nd Year	Prerequisite
4-5	Calculus III Selective	Calculus II	3	MA 35100	Calculus III
3	MGMT 20000		3	MA/STAT 41600	Calculus III
3	ECON 25100		3	MGMT 20100	MGMT 20000
3	STAT 35000	Calculus II	3	ECON 25200	
3	Language Selective III	See Course Info	3	COM 21700	
			2	Free Elective/STAT 25000	
<b>16-17</b>			<b>17</b>		

Credits	Fall 3rd Year	Prerequisite	Credits	Spring 3rd Year	Prerequisite
4	STAT 47201	MA 37300 and MA/STAT 41600	3	STAT 47301	MA 37300 and MA/STAT 41600
3	STAT 41700	MA/STAT 41600	3-4	Laboratory Science Selective II	Lab Sci Selective I
3	MGMT 31000 or MGMT 30400	ECON 25100, MGMT 20100, STAT 35000	3	General Education I Selective	
3-4	Laboratory Science Selective I		3	Free Elective	
3	Free Elective		3	Free Elective	
<b>16-17</b>			<b>15-16</b>		

Credits	Fall 4th Year	Prerequisite	Credits	Spring 4th Year	Prerequisite
4	MA 36600	Calculus III; co-req or pre MA 35100	3	STAT 42000	STAT 35000 and MA/STAT 41600
3	STAT 51200	Statistical Methods		Great Issue Selective	Jr/Sr Standing; may require COM or ENGL
3	MGMT 41100	MGMT 31000	3	General Education II Selective	
3	Free Elective		3	STAT 47900	MA/STAT 41600 and STAT 41700
1	Free Elective		3	Free Elective	
			1	Free Elective	
<b>14</b>			<b>13</b>		

Students must earn a 2.5 average GPA among required MA/STAT/MGMT/ECON courses excluding Calculus I, II, and III AND A or B in major courses excluding MGMT 20000 and 20100 AND 3.5 Average GPA in \* major courses

**120 semester credits required for Bachelor of Science degree.**

**3.3 Graduation GPA required for Bachelor of Science degree.**

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