

Actuarial ScienceCollege of Science

2017-2018

Program Progression Guide

Disclaimer: The 2017-2018 Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the Fall 2017, Spring 2018, and Summer 2018 semesters. The Program Progression Guide assists students in the development of an individualized 8-semester plan. Students are encouraged to use this guide, myPurduePlan* (online degree auditing tool) and the Student Educational Planner (SEP) as they work with their academic advisor towards the completion of their degree requirements.

Notification: Each student is ultimately responsible for knowing, monitoring and completing all degree requirements.

An undergraduate degree in the College of Science requires completion of the following degree requirements.

University Degree Requirements								
Minimum 2.0 Cumulative GPA Minimum 120 Cre degree requirement		that fulfill	32 Residency Credits (30000 and above) at a Purdue University campus					
University Core Curriculum**								
 Human Cultures: Behavioral/So Human Cultures: Humanities Information Literacy Oral Communication 	 Quantitative Reasoning Science Science, Technology & Society Selective Written Communication 							
Required Major Program Courses								
A minimum of 32 semester credits of upper level (30000+) required. Students must earn a 2.5 average GPA among required MA/STAT/MGMT/ECON courses excluding Calculus I, II, III, and STAT 35000.								
College of Science Core Curriculum								
 Freshman Composition: 3-4 credits Technical Writing and Presentation: 3-6 credits Teaming & Collaboration (NC) General Education - 9 credits Foreign Language & Culture: 0-9 credits Great Issues - 3 credits Laboratory Science: 6-8 credits Multidisciplinary: 0-3 credits Computing: 3-4 credits 								
Degree Electives								
Any Purdue or transfer course approved to meet degree requirements in accordance with individual departmental policies.								

Consult the No Count course list for courses which may not be used to meet any College of Science degree requirement.

^{*} This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

^{**} University Core Curriculum Outcomes may be met through completion of the College of Science Core curriculum. Students should consult with their academic advisors and myPurdue Plan for course selections.

2017-18 Actuarial Science Degree Progression Guide

The Mathematics Department has *suggested* the following degree progression guide for the Actuarial Science Degree. Students will work with their academic advisors to determine their best path to degree completion. Course prerequisites are specific to this degree plan. Courses meeting the College of Science Core Curriculum requirements are marked with "SCC" and a letter corresponding to the legend below:

College of Science Core Curriculum (SCC)

- A. Freshman Composition
- B. Technical Writing and Presentation
- C. Teaming and Collaboration
- D. General Education
- E. Foreign Language and Culture
- F. Great Issues

- G. Laboratory Science
- H. Multidisciplinary
- I. Mathematics
- J. Statistics
- K. Computing

Credits	Fall 1st Year	Prerequisite	Credits	Spring 1st Year	Prerequisite
4-5	Calculus I Option ^{cc} SCC-I	ALEKS 85+	4-5	Calculus II Option SCC-I	Calculus I, C- or higher
3-4	ENGL 10600/10800 SCC-A		3	MA 37300 ^{cc} SCC-H	Calculus I, C- or higher
3-4	Language I Option SCC-E		3-4	Computing Option (rec CS 17700 & meets Teambuilding * Collaboration) SCC-K	
2	Free Elective (MA/STAT 17000) SCC-E	Co-req Calc I	3-4	Language II Option SCC-E	Language 10100
3	Free Elective		1	Free Elective	
15-18			14-17		

Credit	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 SCC-D		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 SCC-J	Calculus II, C- or higher	3	ECON 25200 Macroeconomics	
3-4	Language III/Culture/Diversity Option SCC-E	See Course Info	3-6	Technical Writing Option and Technical Presenting Option (COM 21700) SCC-B	
16-18			15-18		

Credit	Fall 3rd Year	Prerequisite	Credit	Spring 3rd Year	Prerequisite
4	STAT 47201 Actuarial Models-Life Contingencies	MA 37300 and MA/STAT 41600, each C- or better	4	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 SCC-G	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 SCC-D	
3-4	Laboratory Science I Option SCC-G		3	Free Elective	
2	Free elective		2	Free elective (STAT 47500)	
15-16			16		

Credit	Fall 4th Year	Prerequisite	Credit	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 SCC-F	Jr/Sr Standing; may require COM or ENGL
3	Free elective (MGMT 41100 or Accounting/Finance VEE Course – see academic advisor)	MGMT 31000 or MGMT 30400, C or higher	3	General Education II Option SCC-D	
3	Free elective (Science, Technology & Society Selective Course)		4	STAT 47901 Loss Models	MA/STAT 41600 or STAT 41700, each C- or higher
3	Free elective		2	Free elective (STAT 47500)	STAT 47201
16			15		