

# BUSINESS: ACTUARIAL SCIENCE, BBA

## REQUIREMENTS

### UNIVERSITY GENERAL EDUCATION REQUIREMENTS

All undergraduate students at the University of Wisconsin–Madison are required to fulfill a minimum set of common university general education requirements to ensure that every graduate acquires the essential core of an undergraduate education. This core establishes a foundation for living a productive life, being a citizen of the world, appreciating aesthetic values, and engaging in lifelong learning in a continually changing world. Various schools and colleges will have requirements in addition to the requirements listed below. Consult your advisor for assistance, as needed. For additional information, see the university Undergraduate General Education Requirements (<http://guide.wisc.edu/undergraduate/#requirementsforundergraduatestudytext>) section of the *Guide*.

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| General Education | <ul style="list-style-type: none"> <li>• Breadth–Humanities/Literature/Arts: 6 credits</li> <li>• Breadth–Natural Science: 4 to 6 credits, consisting of one 4- or 5-credit course with a laboratory component; or two courses providing a total of 6 credits</li> <li>• Breadth–Social Studies: 3 credits</li> <li>• Communication Part A &amp; Part B *</li> <li>• Ethnic Studies *</li> <li>• Quantitative Reasoning Part A &amp; Part B *</li> </ul> |
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\* The mortarboard symbol appears before the title of any course that fulfills one of the Communication Part A or Part B, Ethnic Studies, or Quantitative Reasoning Part A or Part B requirements.

### SCHOOL OF BUSINESS REQUIREMENTS

The Wisconsin Bachelor of Business Administration (BBA) program combines UW–Madison’s general liberal education requirements, broad coverage of core business disciplines, and cutting-edge signature courses to create a strong academic foundation upon which students delve deeply into their majors.

Code	Title	Credits
<b>School of Business BBA Requirements</b>		
Complete requirements: ( <a href="http://guide.wisc.edu/undergraduate/business/#requirements">http://guide.wisc.edu/undergraduate/business/#requirements</a> )		
	School of Business Liberal Studies Requirements	
	Business Fundamentals Requirement	
	Business Core Requirement	
	Business Signature Requirement	

### BUSINESS: ACTUARIAL SCIENCE MAJOR REQUIREMENTS

The following courses are required for actuarial science majors. The Risk and Insurance Department also has course sequence information. Please be aware of stated prerequisites for major courses (including business core courses) that need to be completed before taking the course. Specific prerequisites can be found by clicking on the course number below.

Code	Title	Credits
ACT SCI 300	Probability for Actuaries	1
ACT SCI 303	Theory of Interest	3
ACT SCI 640	Actuarial Statistics for Risk Modeling	4
ACT SCI 650	Fundamentals of Long-Term Actuarial Modeling	3
ACT SCI 652	Fundamentals of Short-Term Actuarial Modeling	3
ACT SCI 651	Advanced Long-Term Actuarial Modeling	3
or ACT SCI 653	Advanced Short-Term Actuarial Modeling	
ACT SCI 654	Regression and Time Series for Actuaries <sup>1</sup>	3
or ACT SCI 655	Health Analytics	
or ACT SCI 657	Risk Analytics	
or GEN BUS 656	Machine Learning for Business Analytics	
<b>Total Credits</b>		<b>20</b>

### RECOMMENDED ELECTIVES

Code	Title	Credits
MATH 234	Calculus--Functions of Several Variables	4
MATH 340	Elementary Matrix and Linear Algebra	3
R M I 300	Principles of Risk Management	3
FINANCE/ ECON 320	Investment Theory	3
COMP SCI 220	Data Science Programming I <sup>1</sup>	4
STAT 303	R for Statistics I	3
& STAT 304	and R for Statistics II	
& STAT 305	and R for Statistics III	

<sup>1</sup> Recommended to take either COMP SCI 220 or the STAT 303, STAT 304, STAT 305 sequence.

### UNIVERSITY DEGREE REQUIREMENTS

**Total Degree** To receive a bachelor's degree from UW–Madison, students must earn a minimum of 120 degree credits. The requirements for some programs may exceed 120 degree credits. Students should consult with their college or department advisor for information on specific credit requirements.

**Residency** Degree candidates are required to earn a minimum of 30 credits in residence at UW–Madison. "In residence" means on the UW–Madison campus with an undergraduate degree classification. "In residence" credit also includes UW–Madison courses offered in distance or online formats and credits earned in UW–Madison Study Abroad/Study Away programs.

**Quality of Work** Undergraduate students must maintain the minimum grade point average specified by the school, college, or academic program to remain in good academic standing. Students whose academic performance drops below these minimum thresholds will be placed on academic probation.