

# Mathematics: Statistics/Actuarial Science, B.A.

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This is a sample plan of study with a suggested sequencing of classes for the major. University electives may be applied to earn additional academic majors, minors, or certificates. Students should regularly meet with their academic advisor to plan their specific semester schedule to include UNIFI/General Education program and/or university elective hours required.

Course	Title	Hour
<b>Freshman</b>		
<b>Fall</b>		
ECON 1041	Principles of Macroeconomics	3
ENGLISH 1005	College Writing and Research	3
MATH 1420	Calculus I	4
MGMT 2080	Introduction to Information Systems	3
STAT 1772	Introduction to Statistical Methods	3
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
COMM 1000	Oral Communication	3
ECON 1051	Principles of Microeconomics	3
MATH 3780/5780	Mathematics of Finance	3
MATH 1421	Calculus II	4
UNIFI/General Education or University Electives		3
<b>Hours</b>		<b>16</b>
<b>Sophomore</b>		
<b>Fall</b>		
ACCT 2120	Principles of Financial Accounting	3
ECON 1011	Statistics for Business Analytics ( or STAT 3771 Applied Statistical Methods for Research)	3
MATH 2500	Linear Algebra for Applications	3
MATH 3752/5752	Introduction to Probability	3
UNIFI/General Education or University Electives		3
<b>Hours</b>		<b>15</b>
<b>Spring</b>		
MATH 2422	Calculus III	4
STAT 3775/5775	Introduction to Mathematical Statistics	3
UNIFI/General Education or University Electives		3
Visual BASIC recommended		3
<b>Hours</b>		<b>13</b>
<b>Junior</b>		
<b>Fall</b>		
ACT SCI 4735/5735	Actuarial Mathematics	3
FIN 3130/5130	Corporate Finance	3
STAT 3776/5776	Regression Analysis	3
UNIFI/General Education or University Electives		6
<b>Hours</b>		<b>15</b>

<b>Spring</b>		
ACT SCI 4739/5739	Topics in Actuarial Science	3
ACT SCI 4785/5785	Introduction to Financial Engineering	3
FIN 3160/5160	Principles of Investments	3
MKTG 2110	Principles of Marketing	3
UNIFI/General Education or University Electives		4
<b>Hours</b>		<b>16</b>

<b>Senior</b>		
<b>Fall</b>		
ACT SCI 4788/5788	Loss Models	3
FIN 3050	Risk Management and Insurance	3
MGMT 3100	Legal and Social Environment of Business	3
UNIFI/General Education or University Electives		7
<b>Hours</b>		<b>16</b>

<b>Spring</b>		
MATH 4900	Senior Mathematics Seminar	1
MGMT 3153	Organizational Management	3
UNIFI/General Education or University Electives		9
<b>Hours</b>		<b>13</b>
<b>Total Hours</b>		<b>120</b>

\* Note: A student who has a grade point average of less than 2.25 in all departmental courses used for this major may not apply a departmental course in which a grade of less than C- is earned.