

## 2017 - 2018 Major Map

### Actuarial Science, BS

School/College: The College of Liberal Arts and Sciences  
 LAACTBS




Term 1 0 - 14 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ CIS 105: Computer Applications and Information Technology (CS)	3	B	<ul style="list-style-type: none"> <li>An SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses</li> <li>ASU Mathematics Placement Test score determines placement in mathematics course</li> <li>ASU 101 or college-specific equivalent First-Year Seminar required of all freshman students</li> <li>CIS 105 will complete the Computer Science (CS) requirement and will fulfill prerequisite for ACT 201.</li> <li>Select your <b>career interest area</b> and play <b>me3@ASU</b>.</li> </ul>
⚠ ECN 211: Macroeconomic Principles (SB) OR ECN 212: Microeconomic Principles (SB)	3	B	
⚠ MAT 270: Calculus with Analytic Geometry I (MA)	4	B	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
MAT 191: First-Year Seminar or LIA 101: Student Success in the College of Liberal Arts and Sciences	1		
Maintain 3.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	14		





Term 2 14 - 30 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ ACT 201: Introduction to Elements and Techniques of Actuarial Science	3	B	<ul style="list-style-type: none"> <li>Meet with your academic advisor to reflect on your first year of classes and map our coursework towards a timely graduation.</li> <li>It is suggested that students complete both ECN 212 and 211 to satisfy the SB general studies requirement as well as the VEE Requirement sequence for Economics by the Society of Actuaries (SOA), Casualty Actuarial Society (CAS), and Canadian Institute of Actuaries (CIA)</li> <li>COM 225 is recommended to satisfy the Literacy and Critical Inquiry ("L") general studies requirement.</li> <li>Join <b>Gamma Iota Sigma Kappa</b> chapter</li> </ul>
⚠ MAT 271: Calculus with Analytic Geometry II (MA)	4	B	
ENG 101 or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107 or ENG 108: First-Year Composition	3	C	
Literacy and Critical Inquiry (L)	3		
Social-Behavioral Sciences (SB)	3	B	
⚠ Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Maintain 3.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	16		






Term 3 30 - 47 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
⚠ MAT 272: Calculus with Analytic Geometry III (MA)	4	B	<ul style="list-style-type: none"> <li>Meet with your academic advisor to discuss summer <b>internship</b> and Research Opportunities for Undergraduates (REU).</li> <li>Students seeking VEE Accreditation, select elective from course list below.</li> </ul>
CLAS Science and Society Elective	3	C	
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Natural Science - Quantitative (SQ)	4		
Elective	3		
⚠ Complete First-Year Composition requirement.			
Complete Mathematics (MA) requirement.			





Maintain 3.50 GPA in Critical Tracking Courses.


Term hours subtotal: 17

Term 4 47 - 61 Credit Hours <b>Critical course signified by</b> 	Hours	Minimum Grade	Notes
 ACT 310: Mathematics of Finance	4	B	<ul style="list-style-type: none"> <li>• Meet with your academic advisor to discuss options for adding a minor, certificate or concurrent major to your degree program.</li> <li>• UD MAT/STP courses should be taken through the Tempe campus, unless approved by a SoMSS advisor.</li> <li>• Students seeking VEE Accreditation, select elective from course list below.</li> </ul>
 MAT 343: Applied Linear Algebra	3	B	
Natural Science - Quantitative (SQ) OR Natural Science - General (SG)	4		
Elective	3		
Maintain 3.50 GPA in Critical Tracking Courses.			
Term hours subtotal:	14		

Term 5 61 - 76 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 ACT 415: Probability for Risk Management	3	B	<ul style="list-style-type: none"> <li>• Meet with your academic advisor to discuss post-graduation plans, e.g. graduate school, career preparation.</li> <li>• UD MAT/STP courses should be taken through the Tempe campus, unless approved by a SoMSS advisor.</li> <li>• Students seeking VEE Accreditation, select elective from course list below.</li> </ul>
 MAT 300: Mathematical Structures (L)	3	C	
 STP 420: Introductory Applied Statistics (CS)	3	B	
Cultural Diversity in the U.S. (C)	3		
Humanities, Arts and Design (HU) AND Global Awareness (G)	3		
Maintain 3.00 GPA in Major Courses.			
Term hours subtotal:	15		

Term 6 76 - 91 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 ACT 301: Risk Management and Insurance	3	B	<ul style="list-style-type: none"> <li>• Meet with a career counselor from ASU Career Services for a review of your <b>resume</b> and interviewing tips for success.</li> <li>• UD MAT/STP courses should be taken through the Tempe campus, unless approved by a SoMSS advisor.</li> </ul>
 ACT 430: Mathematics of Financial Derivatives	3	B	
 MAT 371: Advanced Calculus I	3	C	
 STP 427: Mathematical Statistics	3	B	
Upper Division CLAS Science and Society Elective	3	C	
Complete Global Awareness (G) course(s).			
Complete Historical Awareness (H) course(s).			
Maintain 3.00 GPA in Major Courses.			
Term hours subtotal:	15		

Term 7 91 - 104 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 ACT 440: Life Contingencies I	3	C	<ul style="list-style-type: none"> <li>• Meet with your academic advisor to discuss post-graduation plans, e.g. graduate school, career preparation.</li> <li>• Develop your <b>professional online presence</b>.</li> <li>• ACT 435: VEE sequence requirement for Applied Statistical Methods by the Society of Actuaries (SOA), Casualty Actuarial Society (CAS), and Canadian Institute of Actuaries (CIA)</li> </ul>
 ACT 450: Actuarial Models and Modeling I	3	C	
 ACT 491: Actuarial Exam Preparation Seminar	1	Y	
ACT 435: Actuarial Business Forecasting	3	B	
Elective OR ACT 484: Internship	3		
Maintain 3.00 GPA in Major Courses.			
Term hours subtotal:	13		

Term 8 104 - 120 Credit Hours <b>Necessary course signified by</b> 	Hours	Minimum Grade	Notes
 ACT 441: Life Contingencies II	3	C	<ul style="list-style-type: none"> <li>• Meet with your academic advisor for final degree check and apply for graduation through your My ASU.</li> </ul>
 ACT 451: Actuarial Models and Modeling II	3	C	
 ACT 491: Actuarial Exam Preparation Seminar	1	Y	

Upper Division Social-Behavioral Sciences (SB) OR Upper Division Humanities, Arts and Design (HU)	3
Complete 2 courses:	
Elective	6
Maintain 3.00 GPA in Major Courses.	
Term hours subtotal:	16

- Students seeking VEE Accreditation, select elective from course list below.

- All students pursuing a B.S. or B.S.P. degree in the College of Liberal Arts and Sciences must complete two courses from the Science and Society list found at <https://clas.asu.edu/advising-and-academic-services/science-and-society>. At least one of the two courses must be upper division. Students must earn a C or better in the courses, and no more than one of the two can also be used to simultaneously fill a requirement of the major, minor or related area. Science and Society courses cannot also be used to fill the general studies HU, SB, SQ or SG requirements.

The object of the degree is to prepare students to sit for the exams to gain certification as an actuary. One of the optional certifications that individuals may pursue is completion of the VEE requirements from Society of Actuaries or Casualty Actuarial Society. This certification requires additional experience not covered in the maximum allowed for the degree. However, students may decide to take these additional courses in their 15 hours of elective credit. ASU courses that meet VEE requirements include:

- ECN 211 and ECN 212 - sequence requirement for Economics
- FIN 300 - requirement for Corporate Finance (prerequisites: ACC 231 and ACC 241)
- ACT 435 - requirement for Applied Statistical Methods (Prerequisites: STP 420 and MAT 342 or MAT 343)

#### Hide Course List(s)/Track Group(s)

#### Notes:

Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for**

**Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

**Total College Residency Hrs:** 12 minimum

#### General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)

- Historical Awareness (H)

#### First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2017 - 2018 academic year. Please refer to the course catalog for current General Studies designations at time of class registration. General Studies credit is applied according to the designation the course carries at the time the class is taken.