











2024 - 2025 Major Map

Statistics, BS

School/College: New College of Interdisciplinary Arts and Sciences
ASSTABS

Term 1 0 - 14 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 270: Calculus with Analytic Geometry I (MATH OR MA) OR MAT 265: Calculus for Engineers I (MATH OR MA)	4-3	C	<ul style="list-style-type: none"> ASU 101 or college-specific First-Year Seminar required of all first-year students. NEW 101 satisfies this requirement. IAS 300 (three credit hours) is required for all transfer students in New College. Select your Career Interest Community and play me3@ASU. Activate your Handshake account and build out your profile.
ACO 101: Introduction to Computer Science (QTRS OR CS) OR CSE 110: Principles of Programming (QTRS OR CS)	3	C	
ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	C	
NEW 101: The ASU New College Experience OR IAS 300: Career Strategies and Personal Resilience (L or SB)	1-3		
Social and Behavioral Sciences (SOBE)	3		
Term hours subtotal:	14-15		
Term 2 14 - 30 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 271: Calculus with Analytic Geometry II (MATH OR MA) OR MAT 266: Calculus for Engineers II (MATH OR MA)	4-3	C	<ul style="list-style-type: none"> Create a first draft resume. Join a student club or professional organization. Secure a part-time job or volunteer experience.
ACO 102: Object-Oriented Programming (QTRS OR CS) OR CSE 205: Object-Oriented Programming and Data Structures (QTRS OR CS)	3	C	
ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	C	
Global Communities, Societies and Individuals (GCSI)	3		
Humanities, Arts and Design (HUAD)	3		
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	16-15		
Term 3 30 - 44 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 272: Calculus with Analytic Geometry III (MATH OR MA) OR MAT 267: Calculus for Engineers III (MATH OR MA)	4-3	C	<ul style="list-style-type: none"> Develop your research skills. Develop your professional skills. Interested in pre-professional pathways? Explore our pre-health and pre-law websites.
 STP 280: Probability and Statistics for Researchers (QTRS OR CS)	3	C	
Humanities, Arts and Design (HUAD)	3		
Scientific Thinking in Natural Sciences (SCIT)	4		
 Complete First-Year Composition requirement.			
Complete Mathematics (MATH) requirement.			
Term hours subtotal:	14-13		
Term 4 44 - 60 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes

❗ STP 281: Statistical Analysis for Researchers	3	C
MAT 243: Discrete Mathematical Structures OR MAT 300: Mathematical Structures (L)	3	C
Governance and Civic Engagement (CIVI)	3	
Scientific Thinking in Natural Sciences (SCIT)	4	
Sustainability (SUST)	3	
Term hours subtotal:	16	

- Explore an **internship**, **IGLE** international experience, or **ASU Study Abroad**.

Term 5 60 - 75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ STP 310: Design and Analysis of Experiments	3	C	
★ STP 311: Regression and Time Series Analyses	3	C	
MAT 343: Applied Linear Algebra	3	C	
Upper Division Elective	3		
Elective	3		
Term hours subtotal:	15		

- Thinking about graduate school? Consider registering for a grad school **test prep** course and explore **accelerated masters** degrees.
- Develop your **professional online presence**.

Term 6 75 - 90 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ STP 315: Statistical Computing	3	C	
★ Upper Division Statistics Elective	3	C	
Statistics Focus Area Course	3	C	
American Institutions (AMIT)	3		
Upper Division Elective OR STP 484: Internship	3		
Term hours subtotal:	15		

- Statistics Focus Area courses are courses in related disciplines in the New College of Interdisciplinary Arts and Sciences. See advisor to select the proper courses for the desired related field.
- Students interested in graduate school should enroll in MAT 300, 371 and 472.
- For data science careers, complete ACO courses for focus area.
- LSC 388 is strongly recommended for students interested in graduate school.
- Use Handshake to research **employment opportunities**.
- Complete an in person or virtual **practice interview**.

Term 7 90 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ STP 421: Probability	3	C	
★ STP 485: Statistics Capstone	3	C	
Upper Division Global and Civic Engagement Requirement: satisfied through completion of 6 credits of upper-division courses with a Global Communities, Societies and Individuals (GCSI) or Governance and Civic Engagement (CIVI) designation, in addition to the courses used to meet the university General Studies requirements; or completion of 3 credits from an ASU-approved Global Education program. Adjustment to upper-division and elective hours is required if a lower-division Global Education course is used.	3	C	
Upper Division Statistics Elective	3	C	
Statistics Focus Area Course	3	C	
Term hours subtotal:	15		

- STP 485 Statistics Capstone is offered in fall semesters only. Consult your academic advisor for course planning.
- Statistics Focus Area courses are courses in related disciplines in the New College of Interdisciplinary Arts and Sciences. See advisor to select the proper courses for the desired related field.
- Students interested in graduate school should enroll in MAT 300, 371 and 472.
- For data science careers, complete ACO courses for focus area.
- Gather **professional references**.

Term 8 105 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ STP 427: Mathematical Statistics	3	C	

- Statistics Focus Area courses are courses in related disciplines in the

Upper Division Global and Civic Engagement Requirement: satisfied through completion of 6 credits of upper-division courses with a Global Communities, Societies and Individuals (GCSI) or Governance and Civic Engagement (CIVI) designation, in addition to the courses used to meet the university General Studies requirements; or completion of 3 credits from an ASU-approved Global Education program. Adjustment to upper-division and elective hours is required if a lower-division Global Education course is used.

Upper Division Statistics Elective	3	C
Statistics Focus Area Course	3	C
Upper Division Elective	3-0	
Term hours subtotal:		15-12

New College of Interdisciplinary Arts and Sciences. See advisor to select the proper courses for the desired related field.

- Students interested in graduate school should enroll in MAT 300, 371 and 472 for focus area.
- For data science careers, complete ACO courses for focus area.
- Apply for **full-time career opportunities**.

• Upper Division Statistics Electives:

- Complete nine credit hours. STP 494 is repeatable for different topics. STP 499 may only be taken once, up to three credits. Courses may only apply once to either the Upper Division Statistics Electives or the Focus Area Requirement.

Statistics Focus Area:

- Working with an advisor, select and complete three courses from a single discipline. Focus areas listed are examples; consult advisor for additional options. Courses may only apply once to either the Upper Division Statistics Electives or the Focus Area Requirement.

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

Upper Division Statistics Electives	Statistics Focus Area Course - Chemistry	Statistics Focus Area Course - Forensic Science
ACO 482: Design Thinking for National Security		
MAT 422: Mathematical Methods in Data Science		
STP 450: Nonparametric Statistics		
STP 451: Quality Improvement		
STP 452: Multivariate Statistics		
STP 460: Categorical Data Analysis		
STP 494: Special Topics		
STP 499: Individualized Instruction		
Statistics Focus Area Course - Mathematics	Statistics Focus Area Course - Psychology	Statistics Focus Area Course - Social Justice and Human Rights

- **Total Hours:** 120
- **Upper Division Hours:** 45 minimum
- **University Undergraduate Graduation Requirements**

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course.

General Studies designations listed next to courses on the major map were valid for the 2024 - 2025 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.