





2024 - 2025 Major Map




Statistics, BS



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

Term 1 - A 0 - 7 Credit Hours	Hours	Minimum Grade	Notes
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	<ul style="list-style-type: none"> ASU 101 or college-specific First-Year Seminar is required of all first-year students. NEW 101 fulfills this requirement. IAS 300 (three credits) is required for all transfer students in place of NEW 101. Select your Career Interest Communities and play me3@ASU. Activate your Handshake account and build out your profile.
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:	7-9		


Term 1 - B 7 - 13 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 265: Calculus for Engineers I (MATH OR MA)	3	C	<ul style="list-style-type: none"> View ASU Online first-year student registration information here.
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	
Term hours subtotal:	6		

Term 2 - A 13 - 19 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 266: Calculus for Engineers II (MATH OR MA)	3	C	<ul style="list-style-type: none"> Create a first draft resume.
CSE 110: Principles of Programming (QTRS OR CS)	3	C	
Term hours subtotal:	6		



Term 2 - B 19 - 25 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 MAT 267: Calculus for Engineers III (MATH OR MA)	3	C	<ul style="list-style-type: none"> Secure a part-time job or volunteer experience.
CSE 205: Object-Oriented Programming and Data Structures (QTRS OR CS)	3	C	
 Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	6		

Term 3 - A 25 - 31 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 STP 280: Probability and Statistics for Researchers (QTRS OR CS)	3	C	<ul style="list-style-type: none"> Develop your professional skills.
MAT 243: Discrete Mathematical Structures	3	C	
Term hours subtotal:	6		



Term 3 - B 31 - 37 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
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 STP 281: Statistical Analysis for Researchers	3	C
Humanities, Arts and Design (HUAD)	3	
Complete First-Year Composition requirement.		
Complete Mathematics (MATH) requirement.		
Term hours subtotal:	6	

- Interested in pre-professional pathways? Explore our [pre-health](#) and [pre-law](#) websites.



Term 4 - A 37 - 44 Credit Hours  Critical course signified by	Hours	Minimum Grade	Notes
 Scientific Thinking in Natural Sciences (SCIT)	4		<ul style="list-style-type: none"> • Explore an IGLE international experience or ASU Study Abroad.
Governance and Civic Engagement (CIVI)	3		
Term hours subtotal:	7		

Term 4 - B 44 - 51 Credit Hours	Hours	Minimum Grade	Notes
Scientific Thinking in Natural Sciences (SCIT)	4		
Sustainability (SUST)	3		
Term hours subtotal:	7		

Term 5 - A 51 - 57 Credit Hours  Necessary course signified by	Hours	Minimum Grade	Notes
 STP 310: Design and Analysis of Experiments	3	C	<ul style="list-style-type: none"> • Develop your professional online presence.
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	
Term hours subtotal:	6		

Term 5 - B 57 - 63 Credit Hours  Necessary course signified by	Hours	Minimum Grade	Notes
 MAT 343: Applied Linear Algebra	3	C	<ul style="list-style-type: none"> • Thinking about graduate school? Consider registering for a grad school test prep course and explore accelerated masters degrees.
 STP 311: Regression and Time Series Analyses	3	C	
Term hours subtotal:	6		

Term 6 - A 63 - 69 Credit Hours	Hours	Minimum Grade	Notes
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	
Term hours subtotal:	6		

Term 6 - B 69 - 75 Credit Hours  Necessary course signified by	Hours	Minimum Grade	Notes
 STP 315: Statistical Computing	3	C	<ul style="list-style-type: none"> • Use Handshake to research employment opportunities. • Complete an in person or virtual practice interview.
Global Communities, Societies and Individuals (GCSI)	3		
Term hours subtotal:	6		

Term 7 - A 75 - 81 Credit Hours	Hours	Minimum Grade	Notes
Upper Division Statistics Elective	3	C	
Elective	3		
Term hours subtotal:	6		
Term 7 - B 81 - 87 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Statistics Focus Area Course	3	C	• Gather professional references.
Humanities, Arts and Design (HUAD)	3		
Term hours subtotal:	6		
Term 8 - A 87 - 93 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ STP 421: Probability	3	C	
Upper Division Statistics Elective	3	C	
Term hours subtotal:	6		
Term 8 - B 93 - 99 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ STP 427: Mathematical Statistics	3	C	
Statistics Focus Area Course	3	C	
Term hours subtotal:	6		
Term 9 - A 99 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Statistics Focus Area Course	3	C	
American Institutions (AMIT)	3		
Term hours subtotal:	6		
Term 9 - B 105 - 114 Credit Hours	Hours	Minimum Grade	Notes
Complete 2 courses:	6-3		• Apply for full-time career opportunities
Upper Division Elective			
Elective	3		
Term hours subtotal:	9-6		
Term 10 - A 114 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ STP 485: Statistics Capstone	3	C	
Upper Division Elective OR STP 484: Internship	3		
Term hours subtotal:	6		

- 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.

Upper Division Statistics Electives	Statistics Focus Area Course - Chemistry	Statistics Focus Area Course - Forensic Science
MAT 422: Mathematical Methods in Data Science	CHM 113: General Chemistry I (SCIT OR SQ)	FOR 286: Principles of Forensic Science
STP 450: Nonparametric Statistics	CHM 116: General Chemistry II (SCIT OR SQ)	FOR 370: Fundamentals of Forensic Analysis
STP 451: Quality Improvement	CHM 233: General Organic Chemistry I	FOR 410: Testimony and Ethics in the Forensic Sciences (L)
STP 452: Multivariate Statistics		
STP 460: Categorical Data Analysis		
STP 470: Predictive Analytics		
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
MAT 421: Applied Computational Methods (MATH OR CS)	PSY 3** Elective	JHR 100: Introduction to Social Justice and Human Rights (CIVI OR SB & G)
MAT 422: Mathematical Methods in Data Science	PSY 4** Elective	JHR 305: Theory and Practice of Social Justice and Human Rights (CIVI OR SB & G)
MAT 451: Mathematical Modeling (CS)		JHR 425: The Politics of Immigration
		JHR 433: Race and Sexualities in Social Justice Movements

- **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.