2024 - 2025 Major Map

Mathematics (Statistics), BS

School/College: The College of Liberal Arts and Sciences

LAMATTBS

erm 10 - 14 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes
CSE 110: Principles of Programming (QTRS OR CS)	3	C	• ASU 101 or college-specific equivaler
MAT 270: Calculus with Analytic Geometry I (MATH OR MA)	4	С	First-Year Seminar required of all
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	С	first-year students.Select your Career Interest Communitiand play me3@ASU.
LIA 101: Student Success in The College of Liberal Arts and Sciences	1		
Global Communities, Societies and Individuals (GCSI)	3		
Maintain 3.00 GPA in Critical Tracking Courses.			
Term hours subtotal:	14		
erm 2 14 - 30 Credit Hours Critical course signified by 💠	Hours	Minimum Grade	Notes
MAT 271: Calculus with Analytic Geometry II (MATH OR MA)	4	C	• Join a student club or professional
CSE 205: Object-Oriented Programming and Data Structures (QTRS OR CS)	3	С	organization.
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	С	
Humanities, Arts and Design (HUAD)	3		
Social and Behavioral Sciences (SOBE)	3		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Maintain 3.00 GPA in Critical Tracking Courses.			
Term hours subtotal:	16		
erm 3 30 - 44 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes
MAT 272: Calculus with Analytic Geometry III (MATH OR MA)	4	С	• STP and upper-division MAT courses
STP 420: Introductory Applied Statistics (QTRS OR CS)	3	С	should be taken through the Tempe campus, unless approved by a SoMSS
Humanities, Arts and Design (HUAD)	3		advisor.
Scientific Thinking in Natural Sciences (SCIT)	4		 Meet with your academic advisor to discuss summer internship and/or
Complete First-Year Composition requirement.			Research Opportunities for
Complete Mathematics (MATH) requirement.			Undergraduates (REU).
Maintain 3.00 GPA in Critical Tracking Courses.			
Term hours subtotal:	14		
erm 4 44 - 60 Credit Hours Critical course signified by	Hours	Minimum Grade	Notes

MAT 342: Linear Algebra OR MAT 343: Applied Linear Algebra	3	С
◆ STP 429: Applied Regression (QTRS OR CS)	3	С
Governance and Civic Engagement (CIVI)	3	
Scientific Thinking in Natural Sciences (SCIT)	4	
Maintain 3.00 GPA in Critical Tracking Courses.		

Term hours subtotal: 16

- Meet with your academic advisor to discuss options for adding a minor, certificate, or concurrent major to your degree program.
- STP and upper-division MAT courses should be taken through the Tempe campus, unless approved by a SoMSS advisor.

Notes

Term 5 60 - 75 Credit Hours Necessary course signified by	Hours	Minimum Grade
MAT 371: Advanced Calculus I	3	C
STP 421: Probability	3	С
Science and Society Elective	3	С
American Institutions (AMIT)	3	
Elective	3	
Term hours subtot	al· 15	

- Minimum grade of C required in all MAT and STP classes; grade of B or better strongly correlated with timely graduation.
- STP and upper-division MAT courses should be taken through the Tempe campus, unless approved by a SoMSS advisor.

Notes

Term 6 75 - 90 Credit Hours Necessary course signified	by 🖒 Hours	Minimum Grade
★ STP 427: Mathematical Statistics	3	С
MAT or STP Advanced Course	3	С
Related Field Course	3	С
Sustainability (SUST)	3	
Upper Division Elective OR MAT 484: Internship	3	
Term hou	rs subtotal: 15	

- Minimum grade of C required in all MAT and STP classes; grade of B or better strongly correlated with timely graduation.
- STP and upper-division MAT courses should be taken through the Tempe campus, unless approved by a SoMSS advisor.
- Develop your professional online presence
- Use Handshake to research employment opportunities.

Notes

Term 7 90 - 105 Credit Hours Necessary course signified by	Hours	Minimum Grade
Upper Division MAT or STP Advanced Course	3	С
Related Field Course	3	С
Upper Division Science and Society Elective	3	С
Complete 2 courses: Upper Division Elective	6	
Term hours subtotal:	15	

• Minimum grade of C required in all MAT and STP classes; grade of B or better strongly correlated with timely graduation.

- STP and upper-division MAT courses should be taken through the Tempe campus, unless approved by a SoMSS advisor
- Gather professional references.

Notes

Term 8 105 - 120 Credit Hours Necessary course signified by	Hours	Minimum Grade
Lupper Division MAT or STP Advanced Course	3	С
Related Field Course	4	С
Elective	2	
Complete 2 courses: Upper Division Elective	6	
Term hours subtotal:	15	

- Minimum grade of C required in all MAT and STP classes; grade of B or better strongly correlated with timely graduation.
- STP and upper-division MAT courses should be taken through the Tempe campus, unless approved by an SoMSS advisor.
- Meet with your academic advisor for final degree check and apply for graduation through My ASU.
- Apply for full-time career opportunities.

• All students pursuing a BS or BSP degree in The College of Liberal Arts and Sciences must complete two courses from the Science and Society list found at https://thecollege.asu.edu/resources/science-society. At least one of the two courses must be upper-division and students must earn a C or better in the courses. Both Science and Society courses (i.e., all six credits) may count towards any major, minor, related fields, and ASU General Studies requirements.

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

Related Field Course	MAT or STP Advanced Course	
ACT Upper Division Elective	ACT 430: Mathematics of Financial	
AST Upper Division Elective	Derivatives	
BCH 4** Elective	ACT 435: Statistics for Risk Modeling	
BME Upper Division Elective	ACT 450: Actuarial Models	
CEE Upper Division Elective	ACT 451: Short-Term Actuarial Mathematics	
CHE Elective	MAT 275: Modern Differential Equations	
CHM 341: Elementary Physical Chemistry	(MATH OR MA)	
CHM 343: Elementary Physical Chemistry	MAT 372: Advanced Calculus II	
Laboratory	MAT 420: Scientific Computing	
CHM 345: Physical Chemistry I	MAT 421: Applied Computational Methods (MATH OR CS)	
CHM 346: Physical Chemistry II	MAT 423: Numerical Analysis I (MATH	
CHM 348: Physical Chemistry Laboratory I (L)	OR CS)	
CHM 349: Physical Chemistry Laboratory II	MAT 442: Advanced Linear Algebra	
(L)	MAT 472: Intermediate Real Analysis I	
CHM 453: Inorganic Chemistry	STP 4** Elective	
CHM 460: Biological Chemistry		
CHM 471: Solid-State Chemistry		
CIS 2** Elective		
CIS Upper Division Elective		
CSE Elective		
DAT 301: Exploring Data in R and Python		
DAT 402: Machine Learning for Data Science		
ECN Upper Division Elective		
EEE Elective		
FIN Upper Division Elective		
GLG 418: Geophysics		
GLG 419: Geodynamics		
GLG 470: Hydrogeology		
GLG 481: Geochemistry		
IEE Upper Division Elective		

MAE Elective
MAT Upper Division Elective
MSE Elective
PHI 333: Symbolic Logic
PHI 413: Advanced Symbolic Logic
PHY 121: University Physics I: Mechanics (SCIT OR SQ)
PHY 122: University Physics Laboratory I (SCIT OR SQ)
PHY 131: University Physics II: Electricity and Magnetism (SCIT OR SQ)
PHY 132: University Physics Laboratory II (SCIT OR SQ)
PHY 150: Physics I (SCIT OR SQ)
PHY 151: Physics II (SCIT OR SQ)
PHY 2** Elective
PHY Upper Division Elective
STP Upper Division Elective

• Total Hours: 120

• Upper Division Hours: 45 minimum

• University Undergraduate Graduation Requirements

Notes:

Mathematics Placement Assessment score determines placement in first mathematics course.

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.

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.