2022 - 2023 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 (CS)	3	С	ASU 101 or college-specific equivalent	
MAT 270: Calculus with Analytic Geometry I (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 Communities and play me3@ASU.	
LIA 101: Student Success in The College of Liberal Arts and Sciences	1			
Elective	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 (MA)	4	С	• Join a student club or professional	
CSE 205: Object-Oriented Programming and Data Structures (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 (HU) AND Cultural Diversity in the U.S. (C)	3			
Social-Behavioral Sciences (SB) AND Historical Awareness (H)	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 (MA)	4	C	• STP and upper-division MAT courses	
STP 420: Introductory Applied Statistics (CS)	3	С	need to be taken through the Tempe	
Literacy and Critical Inquiry (L)	3		campus, unless approved by a SoMS	
Natural Science - Quantitative (SQ)	4		advisor. • PHI 103 is recommended to satisfy the	
Complete First-Year Composition requirement.			Literacy and Critical Inquiry (L) genera	
Complete Mathematics (MA) requirement.			studies requirement. • Meet with your academic advisor to	
Maintain 3.00 GPA in Critical Tracking Courses.			discuss summer internship and/or	
Term hours subtotal:	14		Research Opportunities for Undergraduates (REU).	
erm 4 44 - 60 Credit Hours Critical course signified by �	Hours	Minimum Grade	Notes	

MAT 300: Mathematical Structures (L)	3	С
◆ MAT 342: Linear Algebra OR MAT 343: Applied Linear Algebra	3	С
◆ STP 429: Applied Regression (CS)	3	С
Natural Science - Quantitative (SQ) OR Natural Science - General (SG)	4	
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3	
Maintain 3.00 GPA in Critical Tracking Courses.		

 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 need to be taken through the Tempe campus, unless approved by a SoMSS advisor.

Term hours subtotal: 16

Term 5 60 - 75 Credit Hours Necessary cour	se signified by 숙	Hours	Minimum Grade
MAT 371: Advanced Calculus I		3	С
STP 421: Probability		3	С
Science and Society Elective		3	С
Humanities, Arts and Design (HU)		3	
Elective		3	
	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.

Notes

• STP and upper-division MAT courses need to 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
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3	
Upper Division Elective OR MAT 484: Internship	3	
Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).		
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 need to be taken through the Tempe campus, unless approved by a SoMSS advisor.
- Develop your professional online presence.

Notes

• Use Handshake to research employment opportunities.

Term 7 90 - 105 Credit Hours Necessary course signified by	Hours	Minimum Grade
Upper Division MAT or STP Advanced Course	3	С
Upper Division Science and Society Elective	3	С
Related Field Course	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		Minimum Grade
Upper Division MAT or STP Advanced Course	3	С
Related Field Course	4	С
Upper Division Elective	3	
Complete 2 courses: Elective	5	
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 and Modeling I
CEE Upper Division Elective	ACT 451: Actuarial Models and Modeling II
CHE Elective	MAT 275: Modern Differential Equations (MA)
CHM 341: Elementary Physical Chemistry	MAT 372: Advanced Calculus II
CHM 343: Elementary Physical Chemistry Laboratory	MAT 420: Scientific Computing
CHM 345: Physical Chemistry I	MAT 421: Applied Computational Methods (CS)
CHM 346: Physical Chemistry II	MAT 423: Numerical Analysis I (CS)
CHM 348: Physical Chemistry Laboratory I (L)	MAT 442: Advanced Linear Algebra
	MAT 472: Intermediate Real Analysis I
CHM 349: Physical Chemistry Laboratory II (L)	STP 4** Elective
CHM 453: Inorganic Chemistry	
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

Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs.
 Visit: https://cisa.asu.edu/DSP
- 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.

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 2022 - 2023 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.