Bachelor of Science in Mathematics
Option III: Mathematical Sciences
2014-16 Catalog (Expires August 2022)

University Core Curriculum	Lacking
First-Year Signature Course: UGS 302 or 303 ___	
English: RHE 306 ____	
Humanities: One course chosen from E 316K (if taken prior to Fall 2014), 316L, 316M, 316N, 316P ____	
American & Texas Government: 6 hrs from approved core list ____ + ____	
American History: 6 hrs from approved core list ____ + _____	
Social and Behavioral Sciences: 3 hrs from approved core list _____	
Mathematics: 3 hrs from approved core list: _____ [M 408C or M 408N]	
Science and Technology Part I: 6 hrs in a single subject from approved core list: _____ + _____ [may be satisfied by coursework taken for 8 hours of AST, BIO, CH, GEO, or PHY]	
Science and Technology Part II: 3 hrs from approved list in a subject other than the one chosen for Part I: _____	
Visual & Performing Arts: 3 hrs from approved core list ____	
Note that no single course may be used to fulfill two core areas simultaneously. In most cases, students may satisfy both a *core requirement* and a *major requirement* with a single course.	

Additional General Education Requirements	Lacking
Two Writing Flags (must include a course that is not used to meet a core requirement and a course that is upper-division): _____ + _____ Quantitative Reasoning Flag Course: _____ Writing and Quantitative Reasoning Flag courses may satisfy other degree requirements.	
Foreign Language, Option A, B, or C: _____ + _____ A. Two semesters in a single language or attainment of second-semester proficiency in one language. B. First semester-level proficiency in a foreign language and a three-hour course in the culture of the same language area. C. Two three-hour culture courses chosen from one foreign culture area from an approved list available in the CNS Dean's office and the college advising centers.	

Introductory Mathematics and Science with grades of C- or better	Lacking
Complete 8 hours in one of the following areas: AST, BIO, CH, GEO, PHY: _____ + _____ + _____ Select courses that may be counted in the major for the particular field of study. We recommend selecting a sequence that will also count toward the Science and Technology Part I core requirement.	
M 408C + M 408D: _____ + _____ or M 408N + M 408S + 408M: _____ + _____ + _____	

Complete ONE of the following specializations in the Mathematical Sciences option:
- A. Specialization in Statistics, Probability, and Data Analysis
- B. Specialization in Scientific Computation

Specialization in Statistics, Probability, and Data Analysis with grades of C- or better	Lacking
C S 303E or equivalent: _____	
Complete at least 32 hours of upper-division coursework in mathematics and supporting areas, consisting of the courses listed below: M 325K or C S 336: _____ + _____	
M 427K + 362K: _____ + _____	
M 340L or 341: _____	
M 361K or 365C: _____	
M 358K + 378K: _____ + _____	
Complete one of the following courses: M 328K, 343K, 346, 373K: _____	
Complete 7 additional hours of coursework chosen from the following list: CS 327E or 347, ECO 341K, 350K (Topic 4: *Advanced Econometrics*; Topic 6: *Advanced Microeconomic Theory*, Topic 7: *Applied Economic Analysis*), 354K, E E 366L, 379K (Topic 15: *Information Theory*), GRG 360G, 360L, M 339J, 339U, 339V, 343L, 343M, 346, 348, 349P, 349R, 365D, 368K, 373L, 374G, 374M, M E 366L, 366Q, 366R, 367S, PSY 325K, R M 357E: _____ + _____ + _____ Note: Most of these courses have substantial prerequisites, sometimes including courses in other departments. Courses should be chosen in consultation with the specialization advisor to form a coherent program consistent with the student's background and goals. Courses used to satisfy this requirement may not be used to satisfy the Upper-division Coursework outside of Mathematics requirement below. EDP 371 may not be counted toward this degree if it is taken after M 358K or 378K.	

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Specialization in Scientific Computation with grades of C- or better	Lacking
Students who complete this specialization may simultaneously fulfill some of the requirements of the Elements of Computing Certificate or the Certificate in Scientific Computation. *Compete one of the following sequences:* _____ + _____ a. SDS 318 + 222 b. C S 312 + 314 c. C S 303E + 313E	
Complete at least 32 hours of upper-division coursework in mathematics and supporting areas, consisting of the courses listed below: M 340L or 341: _____	
M 427K + 348 + 362K + 368K: _____ + _____ + _____ + _____	
M 361K or 365C: _____	
Complete 13 additional hours of coursework chosen from the following list: M 325K or 328K (but not both), 427L, 343K or 373K (but not both), 343L, 346, 358K, 361, 365D, 372K, 374M, 376C, 378K: _____ + _____ + _____ + _____ + _____ Students who fulfill the requirements of the Elements of Computing Certificate or the Certificate in Scientific Computation may count up to 6 hours of upper-division certificate coursework toward the remaining 13 upper-division hours. C S 323E may not be counted toward this requirement. Courses used to satisfy this requirement may not be counted toward the Upper-division Coursework outside of Mathematics requirement below.	

Upper-division Coursework outside of Mathematics	Lacking
Complete at least 6 hours of upper-division coursework outside of M, AST, BIO, CH, GEO, and PHY. Philosophy courses in logic, computer science courses in discrete mathematics, engineering courses, and courses counted toward either Specialization above may not be used to fulfill this requirement: _____ + _____	

Enough Additional Elective Hours to Reach a Total of 126 Hours (including 42 upper-division Hours)	Lacking

Minimum Grade Point Average Requirements	Lacking
2.0 grade point average in all mathematics and science courses required by degree*: _____	
2.0 grade point average in all courses taken at the University of Texas at Austin: _____	
* Required mathematics and science courses may include: ACF, AST, BCH, BIO, CH, CS, EVS, GEO, HDF, HE, M, NEU, NSC, NTR, PBH, PHY, SDS, SSC, TXA, and UTS-Natural Sciences.	

Total Hours and Residency Requirements	Lacking
126 semester hours: ___	
42 upper-division hours: ___	
21 upper-division hours completed in residence: ___	
18 hours in Mathematics completed in residence: ___	
60 hours in residence: ___	
No more than 6 hours of electives may be taken Pass/Fail. No more than 3 three-hour courses in Air Force Science, Military Science, and Naval Science may be counted toward the degree. The following courses will not count toward this degree: M 301, KIN 119, or PED one-hour activity courses. Please check course descriptions of lower-division science courses not required for majors in the same field of study to see if they can or cannot count toward this degree. A student may not earn more than one Bachelor of Arts, Bachelor of Science and Arts, or Bachelor of Science in Environmental Science degree from the University. A student may earn only one undergraduate degree in a particular field of study from the College of Natural Sciences. A student who holds a Bachelor of Arts or a Bachelor of Science and Arts degree from the university may earn a second major designation in another field of study that will appear on the University transcript. The title of the degree appears on the diploma, but the major does not. The title of the degree, the major, and the transcript-recognized certificate appear on the official transcript.	