

Bachelor of Science in Mathematics
Option III: Mathematical Sciences
Specialization in Statistics, Probability & Data Analysis
2010-12 Catalog (Expires August 2018)

University Core Curriculum

First-Year Signature Course: UGS 302 or 303 ____

English: RHE 306 ____

Humanities: E 316K ____

American & Texas Government: 6 hrs from approved core list ____ + ____

American History: 6 hrs from approved core list ____ + ____

Social and Behavioral Science: 3 hrs from approved core list ____

Mathematics: 3 hrs from approved core list: ____ [M 408N or 408C]

Science and Technology Part I: 6 hrs in a single subject from approved core list: ____ + ____

Science and Technology Part II: 3 hrs from a subject other than the one chosen for Part I from approved core list: ____

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. Plan II students may have additional options for some core requirements.

Additional General Education Requirements

Substantial Writing Components and/or Writing Flags (including a course that is not used to meet a core requirement and a course that is upper-division): ____ + ____

Substantial Writing Components and Writing Flags may satisfy other specific degree requirements

Foreign Language: Courses 506 and 507 (or the equivalent) in a single foreign language, and a three-semester-hour course in the same language for which 507 is a prerequisite. ____ + ____ + ____

Introductory Mathematics and Science, with grades of C- or better

Mathematics: M 408C ____ + M 408D ____ **OR** M 408N ____ + M 408S ____ + M 408M ____
or an equivalent calculus sequence

Computer Science: C S 303E (or equivalent) ____

Natural Science: 8 hours in one of the following areas: Astronomy, Biology, Chemistry, Geological Sciences or Physics
____ + ____ [may satisfy Science and Technology Part I or Part II if courses are chosen from S&T Part I or Part II list]

Option Requirements with grades of C- or better

32 hours of upper division coursework in mathematics and related areas consisting of:

M 325K or CS 336: ____

M 427K ____ + 362K ____

M 341 (or 340L if already taken; M 340L is restricted to non-mathematics majors): ____

M 361K or 365C: ____

M 358K ____ + M 378K ____.

One additional course chosen from: M 328K, 343K, 346, 373K: ____

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Seven additional upper-division coursework to complete 32 hours of upper-division mathematics and coursework in related areas: *Course selection is not limited to one department. More than one course can be taken from a single dept. Many courses have substantial prerequisites and some have restricted enrollment. Student is responsible for meeting prerequisites and other requirements for enrollment in the courses selected to fulfill this requirement:* _____ + _____ + _____

Mathematics: M 339J, 339U, 339V, 343L, 343M, 346, 348, 349P, 349R, 365D, 368K, 373L, 374G, and 474M.

Computer Science: CS 327E and 347.

Economics: ECO 341K, 350K (Topic 4, Topic 6, Topic 7), and 354K.

Electrical Engineering: EE 366L and 379K (Topic 15: Information Theory).

Geography: GRG 360G and 360L.

Mechanical Engineering: ME 366L, 366Q, 366R, and 367S.

Psychology: PSY 325K.

Risk Management: R M 357E.

Note: Courses should be chosen in consultation with the specialization advisor to form a coherent program consistent with the student's background and goals.

Enough Additional Coursework to Reach a Total of 126 Hours (including 42 Upper-division Hours)

6 upper division semester hours outside of both mathematics and subject areas listed in "Introductory Mathematics and Science Courses" are needed. Philosophy courses in logic, computer science courses in discrete mathematics, and engineering courses may not be used. Courses used to satisfy the 32 semester hours of upper-division coursework in mathematics and supporting areas may not count for this requirement.

Minimum Grade Point Average Requirements

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, BIO, CH, CS, EVS, GEO, HDF, HE, M, NSC, NTR, PHY, SSC, TXA, and UTS-Natural Sciences.

Total Hours and Residency Requirements

126 semester hours: _____	42 upper-division hours _____
60 hours in residence: _____	24 of the last 30 hours in residence: _____
No more than 16 hours of electives may be taken Pass/Fail.	18 hours of math coursework in residence: _____

Students completing an additional degree must complete 24 hours in addition to those counted toward the bachelor's degree that requires the higher number of credit hours.

Additional Information

The following courses will not count toward this degree: M 301, M 304E, M 403K, M 403L, M 305G, M 505G, M 316K, M 316L, M 360K, M 378S (or equivalent courses), EDP 371 (if taken after M 358K or M 378K), KIN 119 or PED one-hour activity courses. No more than 12 semester hours of bible coursework may be counted toward the degree. See catalog for restrictions about using ROTC coursework.