The University of Texas at Austin
Department of Statistics and Data Sciences
College of Natural Sciences

Certificate in Applied Statistical Modeling Course Progression Worksheet 2020–2022 Catalog

ADMISSION REQUIREMENTS

Course(s) Fulfilled

1. PREREQUISITE KNOWLEDGE (pick one)

Mathematics:
408C Calculus I
408L Integral Calculus
408N Differential Calculus
408R Calculus for Biologists
408S Integral Calculus

2. MATHEMATICAL FOUNDATION OF STATISTICS (pick one)

Biomedical Engineering
335 Engineering Probability & Sttistics
Electrical Engineering
351K Probability and Random Processes
Mathematics
362K Probability I
Statistics and Data Sciences
321 Intro to Probability & Statistics

3. APPLIED STATISTICS COURSE 1 (pick one)

Economics
329 Economic Statistics
Educational Psychology
371 Intro to Statistics
Government
350K Statistical Analysis in Political Science
Mathematics
358K Applied Statistics
Psychology
418 Statistics & Research Design
Sociology
317L Intro to Social Statistics
Statistics
309 Elementary Business Statistics
Statistics and Data Sciences
302 Data Analysis for the Health Sciences
304 Statistics in Health Care
306 Statistics in Market Analysis
328M Biostatistics

4. APPLIED STATISTICS COURSE 2 (pick one)

Economics
441K Intro to Econometrics
Mathematics
349R Applied Regression
Statistics (majors only)
371G/H Statistics & Modeling/Honors
375/H Statistics and Modeling for Finance/Honors
Statistics and Data Sciences
325H Honors Statistics
332 Statistical Models for the Health & Behavioral Sciences
352 Statistical Modeling
358.1 Applied Regression

Course(s) Fulfilled

5. ELECTIVES (pick three)

Students are encouraged to select courses within their own majors or colleges as appropriate. The Statistics and Data Sciences courses are available to students in all majors.

Advertising
344K Advertising Research
Communication Studies
348 Communication Research Methods
Computer Science
342 Neural Networks
343 Artificial Intelligence
363D Introduction to Data Mining
Economics
342L Advanced Econometrics
348K.1 Advanced Econometrics
354K Intro to Game Theory
Electrical Engineering
361M Intro to Data Mining
461P Data Science Principles
Geological Sciences
325K Computational Methods
365N Seismic Data Processing
Health Education
343 Foundations of Epidemiology
373 Evaluation & Research Design
Kinesiology
376 Measurement in Kinesiology
Linguistics
350.15 Computational Semantics
Mathematics
339J Probability Models with Actuarial Applications
349P Actuarial Statistical Estimate
362M Introduction to Stochastic Processes
378K Introduction to Mathematical Statistics
378N Generalized Linear Models
378P or SDS 378P Decision Analytics
Management Information Systems
373.11 Advanced Analytics Programming
373.17 Data Mining for Business
Petroleum and Geosystems Engineering
378 Applied Reservoir Characterization
Psychology
325K Advanced Statistics
Public Health
354 Epidemiology
Statistics
372.5: Financial and Econometric Time Series Modeling
Statistics and Data Sciences
323 Statistical Learning and Inference
348 Computational Biology & Bioinformatics
353 Advanced Multivariate Methods
358 Special Topics in Statistics
374E Visualization & Data Analysis
375 Special Topics in Scientific Computation
378 Intro to Mathematical Statistics
378P or M 378P Decision Analytics
379R Undergraduate Research

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POLICIES & PROCEDURES

- Return applications to GDC 7.408, Campus Mail Code: D9800
- Total of 18 hours required (not counting the prerequisite)
- Students must receive a grade of at least C in each course applied toward the certificate and have a cumulative grade point average of at least 3.0 in the courses presented to fulfill the certificate.
- Please visit the certificate website for more detailed information on course options & polices: stat.utexas.edu/undergraduate/certificate-in-applied-statistical-modeling