

Colorado State University
STATISTICS MINOR

Undergraduate Advisor: Ben Prytherch

Room 213 Statistics

Phone: (970) 491-3899

E-mail: prytherc@stat.colostate.edu

Program Coordinator: Marty Sweeney

Room 102 Statistics

Phone: (970) 491-5269

E-mail: martin.sweeney@colostate.edu

<p>GRADUATION REQUIREMENTS 22 credits</p> <p>Total REQUIRED Credits[9-10]</p> <p>Total ELECTIVE Credits[12]</p> <p>*NOTE: Students with previous R programming experience may waive STAT 158 with permission from a statistics advisor.</p> <p>A MINIMUM grade of C must be obtained in ALL courses.</p> <hr/> <p>GROUP A: Introductory Course (Select one) [3]</p> <p>___ STAT 301 Intro to Applied Statistical Methods [3]</p> <p>___ STAT 307 Introduction to Biostatistics [3]</p> <p>___ STAT 315 Intro to Theory and Practice of Statistics [3]</p> <p>___ STAT 201 General Statistics [3]</p> <p>or</p> <p>___ STAT 204 Statistics with Business Applications [3]</p> <p>AND</p> <p>___ STAT 302A Statistics Supplement [1]</p> <p>GROUP B: Core Courses (Must take ALL courses) [7]</p> <p>___ STAT 158 Introduction to R Programming (S) [1]</p> <p>___ STAT 341 Statistical Data Analysis I (F) [3]</p> <p>___ STAT 342 Statistical Data Analysis II (S) [3]</p> <p>Electives: [12]</p> <p>See lists below and to the right, select at least 6 credits from the list of statistics and data science electives and up to 6 credits from the list of approved outside electives.</p> <hr/> <p>STATISTICS ELECTIVES: [6]</p> <p>Select at least 6 credits from the following:</p> <p>___ DSCI 335 Inferential Reasoning in Data Analysis [3]</p> <p>___ DSCI 336 Data Graphics and Visualization [1]</p> <p>___ DSCI 445 Statistical Machine Learning [3]</p> <p>___ STAT 305 Sampling Techniques [3]</p> <p>___ STAT 331 Intermediate Applied Statistical Methods [3]</p> <p>___ STAT 351 Sports Statistics and Analytics I [3]</p> <p>___ STAT 400 Statistical Computing [3]</p> <p>___ STAT 420 Probability and Mathematical Statistics I [3]</p> <p>___ STAT 421 Introduction to Stochastic Processes [3]</p> <p>___ STAT 430 Probability and Mathematical Statistics II [3]</p> <p>___ STAT 440 Bayesian Data Analysis [3]</p> <p>___ STAT 451 Sports Statistics and Analytics II [3]</p> <p>___ STAT 460 Applied Multivariate Analysis [3]</p> <p>___ STAT 472 Statistical Research--Design, Data, Methods [3]</p>	<p>ELECTIVE COURSES</p> <p>This is not meant to be an all-inclusive listing of elective courses. The electives shown below represent a portion of those courses at the 300-400 level that are offered by other departments and that are acceptable in meeting the minor in Statistics. Contact the Statistics Department advisor to inquire about pre-approving other courses.</p> <hr/> <p>APPROVED OUTSIDE ELECTIVES: [6]</p> <p>Select up to 6 credits from the following:</p> <p>___ BIOM 422 Quantitative Systems and Synthetic Biology [3]</p> <p>___ BIOM 431/ECE 431 Biomedical Signal and Image Processing [3]</p> <p>___ BZ 350 Molecular and General Genetics [4]</p> <p>___ BZ 360 Bioinformatics and Genomics [4]</p> <p>___ CIS 370 Business Analytics [3]</p> <p>___ CS 220 Discrete Structures and their Applications [4]</p> <p>___ CS 320 Algorithms--Theory and Practice [3]</p> <p>___ CS 420 Introduction to Analysis of Algorithms [4]</p> <p>___ CS 445 Introduction to Machine Learning [4]</p> <p>___ DSCI 235 Data Wrangling [2]</p> <p>___ DSCI 320 Optimization Methods in Data Science [3]</p> <p>___ DSCI 369 Linear Algebra for Data Science [4]</p> <p>___ DSCI 473 Introduction to Geometric Data Analysis [2]</p> <p>___ DSCI 475 Topological Data Analysis [2]</p> <p>___ ECE 303/STAT 303 Introduction to Communications Principles [3]</p> <p>___ ECE 311 Linear System Analysis I [3]</p> <p>___ ECE 312 Linear System Analysis II [3]</p> <p>___ ECON 335/AREC 335 Introduction to Econometrics [3]</p> <p>___ ECON 435 Intermediate Econometrics [3]</p> <p>___ ECON 436 Economic Forecasting [3]</p> <p>___ ERHS 332 Principles of Epidemiology [3]</p> <p>___ ERHS 430 Human Disease and the Environment [3]</p> <p>___ ESS 330 Quantitative Reasoning for Ecosystem Science [3]</p> <p>___ F 321 Forest and Natural Resource Biometry [3]</p> <p>___ F 422 Quantitative Methods in Forest Management [3]</p> <p>___ FW 370 Design of Fish and Wildlife Projects [3]</p> <p>___ FW 401 Fishery Science [3]</p> <p>___ FW 471 Wildlife Data Collection and Analysis [4]</p> <p>___ FW 475 Conservation Decision Making [3]</p> <p>___ HDFS 350 Applied Research Methods [3]</p> <p>___ MATH 229 Matrices and Linear Equations [2]</p> <p>___ MATH 331 Introduction to Mathematical Modeling [3]</p> <p>___ MATH 340 Intro to Ordinary Differential Equations [4]</p> <p>___ MATH 345 Differential Equations [4]</p> <p>___ MATH 369 Linear Algebra I [3]</p> <p>___ MATH 450 Introduction to Numerical Analysis I [3]</p> <p>___ MECH 231 Engineering Experimentation [3]</p> <p>___ MECH 417 Control Systems [3]</p> <p>___ MGT 475 International Business Management [3]</p> <p>___ MKT 450 Marketing Analytics [3]</p> <p>___ NR 422 GIS Applications in Natural Resource Management [4]</p> <p>___ PSY 317 Social Psychology Laboratory [2]</p> <p>___ PSY 350 Research Design and Analysis II [3]</p> <p>___ PSY 370 Psychological Measurement and Testing [3]</p> <p>___ PSY 371 Psychological Measurement and Testing Lab [1]</p> <p>___ SOC 314 Applications of Quantitative Research [3]</p>
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