

CSUF Data Science Minor

Data Science Introduction (choose one)

CPSC 375 Introduction to Data Science and Big Data
MATH 237 Foundations of Data Science

Machine Learning

CPSC 483 Intro to Machine Learning for Data Science

Introductory Statistics (choose one)

ISDS 361A Business Analytics I
MATH 338 Statistics Applied to Natural Sciences
PSYC 201 Introduction to Statistics in Psychology
PUBH 349 Measurement and Statistics in Health Science
Similar introductory course in Statistics

Culminating Experience (choose one, 3 units)

495 Internship
497 Independent Research
499 Independent Research
Similar course

Elective (at least 3 units)

ACCT 307 Accounting Information Systems
ACCT 404 Emerging Technologies in Accounting
ACCT 407 Accounting Data Analytics
ANTH 404 Analytical Methods in Archaeology
ANTH 445 Quantitative Methods in Anthropology
BIOL 402 Computer Lab in Molecular Systematics
BIOL 410 Evolutionary Genetics
BIOL 411 Medical Genetics and Systems Biology
BIOL 473 Introduction to Bioinformatics
CPSC 332 File Structures and Database Systems
CPSC 454 Cloud Computing and Security
CPSC 474 Parallel and Distributed Computing
CPSC 479 Introduction to High Performance Computing
CPSC 485 Computational Bioinformatics

Elective (cont.)

ECON 305 Economics, Causality, and Analytics
ECON 340 Economic Research Methods
ECON 440 Introduction to Econometrics
EGME 424 Data Acquisition and Instrumentation
FIN 478 Data Analytics for Risk and Insurance
GEOG 489 Digital Image Processing
GEOL 381 Data Collection and Analysis for Earth Scientists
HUSR 315 Research and Data Management in Human Services
ISDS 373 Python for Business Analytics
ISDS 402 Database Management Systems
ISDS 415 Principles of Business Intelligence
ISDS 442 Business Modeling Using Spreadsheets
ISDS 462 Applied Business Regression Analysis
ISDS 474 Data Mining for Managers
ISDS 477 Applied Business Forecasting
ISDS 478 Data Analytics for Risk and Insurance
KNES 349 Measurement and Statistics in Kinesiology
MATH 335 Mathematical Probability
MATH 435 Mathematical Statistics
MATH 337 Introduction to Computational Statistics
MATH 437 Modern Approaches to Data Analysis
MATH 439 Intermediate Data Analysis
MKTG 443 Marketing Analytics Decision Making in the Information Age
MKTG 444 Social Media Marketing and Analytics
POSC 407 Polls, Statistics and Political Interpretation
PSYC 466 Computer Applications for Psychological Research
PUBH 201 Introduction to Public Health
PUBH 349 Measurement and Statistics in Health Science
PUBH 349L Applied Measurement and Statistics in Health Science (1 unit)
PUBH 401 Epidemiology
SOC 302 Social Research Methods
SOC 303 Statistics for the Social Sciences