[ARCHIVED CATALOG]

Analytics, Minor

Analytics requirements

The minor in Analytics provides students with an introduction to data-intensive decision making using modern statistical techniques and technological tools that are common across a broad set of disciplines including business, technology, mathematics and the sciences.

Students pursuing a minor in Analytics are required to:

- Complete 24 credits.
- Maintain at least a 2.000 overall grade point average in the minor.
- Complete all courses in the minor for a letter grade.
- Complete a minimum of 12 credits for the minor at Chapman University.
- $\bullet\,$ 12 credits (4 courses) must be taken outside the major program of study.
- Complete a minimum of 15 credits of upper-division credit.

lower-division requirements (9 credits)

- MGSC 220 Foundations of Business Analytics 3 credits
- <u>CPSC 230 Computer Science I 3 credits</u>

one of the following

- MATH 203 Introduction to Statistics 3 credits *
- PSY 203 Statistics for Behavioral Sciences 3 credits
- MGSC 209 Introductory Business Statistics 3 credits

upper-division requirements (9 credits)

• MGSC 310 - Statistical Models in Business Analytics 3 credits **

- CPSC 392 Introduction to Data Science 3 credits
- MGSC 410 Applied Business Analytics 3 credits

upper-division electives (6 credits)

- BIOL 302 Introduction to Bioinformatics 3 credits
- MATH 303 Biostatistics 3 credits
- CPSC 308 Enterprise Data Management 3 credits
- CPSC 350 Data Structures and Algorithms 3 credits
- MATH 360 Probability Theory 3 credits
- MATH 361 Mathematical Statistics 3 credits
- CPSC 393 Machine Learning 3 credits
- MGSC 406 Advanced Experimental Design and Statistics 3 credits
- CPSC 408 Database Management 3 credits
- <u>CPSC 435 BioMedical Informatics</u> **3 credits OR**
- ECON 452 Econometrics 3 credits

total credits 24

*Mathematics majors may satisfy this requirement with MATH 361. Biological Sciences majors may satisfy this requirement with MATH 303.

^{**}Economics majors may satisfy this requirement with $\underline{\text{ECON 452}}.$