DATA - DATA SCIENCE AND ANALYTICS

DATA100 Elementary Statistics and Probability (3 Credits)
Prerequisite: MATH110, MATH112, MATH113, or MATH115; or permission of CMNS-Mathematics department; or must have math eligibility of STAT100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility.
Restriction: Must not have completed MATH111; or must not have completed any STAT course with a prerequisite of MATH141. Cross-listed with: STAT100.
Credit Only Granted for: DATA100 or STAT100.

DATA110 Applications of R for Data Science (1 Credit)
Intended to prepare students for subsequent courses requiring computation with R, providing powerful and easy to use tools for statistical data analysis. Covers basics of R and R Studio including file handling, data simulation, graphical displays, vector and function operations, probability distributions, and inferential techniques for data analysis.
Prerequisite: DATA100, STAT100, or MATH135; or any 400-level STAT course. Cross-listed with: STAT110.
Credit Only Granted for: STAT110 or DATA110.

DATA120 Python Programming for Data Science (1 Credit)
Prerequisite: STAT100, MATH135, or any 400-level STAT course.

DATA400 Applied Probability and Statistics I (3 Credits)
Random variables, standard distributions, moments, law of large numbers and central limit theorem. Sampling methods, estimation of parameters, testing of hypotheses.
Prerequisite: 1 course with a minimum grade of C- from (MATH131, MATH141); or students who have taken courses with comparable content may contact the department. Cross-listed with: STAT400.
Credit Only Granted for: DATA400, ENEE324, or STAT400.
Additional Information: Not acceptable toward graduate degrees in MATH/STAT/AMSC.