STAT100 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 MATH or STAT course with a prerequisite of MATH141.

**Credit Only Granted for:** STAT100, MATH107 or MATH111.

STAT386 Experiential Learning (3-6 Credits)

**STAT400 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.

**Credit Only Granted for:** BMGT231, ENEE324, or STAT400.

**Additional Information:** Not acceptable toward graduate degrees in MATH/STAT/AMSC.

**STAT401 Applied Probability and Statistics II (3 Credits)**

**Prerequisite:** 1 course with a minimum grade of C- from (STAT400, STAT410).

**Additional Information:** Not acceptable toward graduate degrees in MATH/STAT/AMSC.

**STAT410 Introduction to Probability Theory (3 Credits)**

**Prerequisite:** 1 course with a minimum grade of C- from (MATH240, MATH461, MATH341); and 1 course with a minimum grade of C- from (MATH340, MATH241). Cross-listed with SURV410.

**Credit Only Granted for:** STAT410 or SURV410.

**STAT420 Theory and Methods of Statistics (3 Credits)**

**Prerequisite:** 1 course with a minimum grade of C- from (SURV410, STAT410). Cross-listed with SURV420.

**Credit Only Granted for:** STAT420 or SURV420.