STATISTICS CURRICULUM (4-Year Plan)

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1		**APPM 1350** Calculus 1 for Engineers	**CSCI1300** Computer Science 1: Starting Computing	**GEN ED** FILL	**GEN ED** FILL
2	**STAT 2600** Introduction to Data Science	**APPM 1360** Calculus 2 for Engineers	**CSCI 2270** Computer Science 2: Data Structures	**GEN ED** Fill	
3	**STAT 3100** Applied Probability	**APPM 2350** Calculus 3 For Engineers	**APPM 2450** Calculus 3 Computer Lab Not required	**OUTSIDE AREA** Fill	**GEN ED** FILL
4	**STAT 3400** Applied Regression	**APPM 3310** Matrix Methods and Applications	**ELECTIVE** Fill	**OUTSIDE A** Fill	**GEN ED** Fill
5	**STAT 4610** Fill	**STAT 4520** Fill		**OUTSIDE** Fill	**Writing-3(GEN)** See Reverse
6	**STAT 4400** Advanced Statistical Modeling	**UPPER STAT** Fill		**OUTSIDE** Fill	**H&SS-3(GEN)** Lower Division
7	**UPPER STAT** Elective		**APPM 4500** Statistical Collaboration	**OUTSIDE** Elective	**OUTSIDE** Lower Division
8	**UPPER STAT** Elective	**UPPER STAT** Elective	**APPM 4560** Markov Processes, Queues, and Monte Carlo Simulations	**OUTSIDE** Elective	**H&SS-3** Upper Division

Row 3 additional: **H&SS-3(GEN ED)** Lower Division
Row 5 additional: **GEN ED** Fill
Row 6 additional: **GEN ED** Elective
Row 7 additional: **H&SS-3** Upper Division

Complete before MCEN4045 ——— (blue)

Complete before or with MCEN4045 ——— (green)

Denotes prerequisite sequence →

Denotes prereq/coreq sequence ⇢

Effective Spring 2018

Standard Course Substitutions
CSCI1320 – ECEN1310, or CSCI 1300 (Note: COEN1300 and GEEN1300 are also accepted, if completed prior to Fall 2015)
GEEN1400 – ASEN1400, COEN1400, COEN1410, ECEN1400, GEEN2400, or GEEN3400
MCEN1024 – CHEM1113&1114 or CHEN1211&CHEM1221
PHYS2130 – PHYS2170, CHEM3311&3321, APPM3310, or CSCI2270

Writing Requirement
The Writing Requirement can be fulfilled by HUEN1010 (freshmen only), HUEN3100, WRTG3035, or WRTG3030.

Humanities & Social Science Electives
Please see http://www.colorado.edu/engineering-advising/get-your-degree/degree-requirements/humanities-social-sciences-and-writing-requirements.

General Technical Electives
3000 and 4000 level courses in the following subjects are considered to be General Technical Electives: APPM, AREN, ASEN, ASTR, ATLS, ATOC, CHEM, CHEN, CSCI, CVEN, EBIO, ECEN, EVEN, EMEN, GEOL, IPHY, MATH, MCDB, MCEN, and PHYS. In addition, GEEN3400 and NAVR3030 have been approved to fulfill the requirement.

ME Technical Electives
4000 level MCEN courses not otherwise required for the major are considered to be ME Technical Electives. BS/MS students have the same course options, but should complete the classes at the 5000 level.

Tech Elective Exceptions
You may use one of the following courses as an ME Tech Elective, provided your second ME Tech Elective is completed within Mechanical Engineering: APPM4350, ASEN4123, GEEN3400, EMEN4030, EMEN4050, EMEN4100, EMEN4200, EMEN4800, EMEN4825, EMEN4830, ENEN4600.

Grade Requirements
Beginning with the incoming class of Fall 2015, the minimum passing grade for prerequisite and corequisite classes in our curriculum is a C. This includes courses completed outside the department (APPM, PHYS, etc.). The minimum passing grade for standalone classes is a D-. In addition, students need to have a cumulative and major GPA of at least 2.25 in order to graduate from the College of Engineering.