STATISTICS CURRICULUM (4-Year Plan)

1. **APPM 1350**
   - Calculus 1 for Engineers

2. **CSCI 1300**
   - Computer Science 1: Starting Computing

3. **GEN ED Fill**
   - Lower Division

4. **APPM 2450**
   - Calculus 3 Computer Lab
   - Not required

5. **OUTSIDE AREA Fill**

6. **STAT 2600**
   - Introduction to Data Science

7. **APPM 2350**
   - Calculus 2 for Engineers

8. **CSCI 2270**
   - Computer Science 2: Data Structures

9. **GEN ED Fill**

10. **STAT 3100**
    - Applied Probability

11. **APPM 2450**
    - Calculus 3 Computer Lab
    - Not required

12. **OUTSIDE AREA Fill**

13. **STAT 3400**
    - Applied Regression

14. **APPM 3310**
    - Matrix Methods and Applications

15. **ELECTIVE Fill**

16. **GEN ED Fill**

17. **STAT 4610**
    - Fill

18. **STAT 4520**
    - Fill

19. **OUTSIDE Fill**

20. **STAT 4600**
    - Applied Regression

21. **APPM 3310**
    - Matrix Methods and Applications

22. **OUTSIDE Fill**

23. **APPM 4500**
    - Statistical Collaboration

24. **OUTSIDE Elective**

25. **APPM 4560**
    - Markov Processes, Queues, and Monte Carlo Simulations

26. **OUTSIDE Elective**

27. **GEN ED Fill**

28. **OUTSIDE Fill**

29. **GEN ED Fill**

30. **H&SS-3(GEN ED)**
    - Lower Division

31. **GEN ED Fill**

32. **H&SS-3(GEN ED)**
    - Lower Division

33. **GEN ED Fill**

34. **H&SS-3(GEN ED)**
    - Lower Division

35. **GEN ED Elective**

36. **H&SS-3(GEN ED)**
    - Elective

37. **H&SS-3 Upper Division**

38. **H&SS-3 Upper Division**

Complete before or with MCEN 4045

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.