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| Logic / Modes of Reasoning        | PHL 313Q / T C 310 | ASE 211K or COE 311K  
ARC 311K  
C E 311K  
STA 371H or 375H or 371G  
SDS 328M  
SDS 328M  
BME 335  
CHE 348  
C E 311K  
COE 211K or 311K  
C S 311 or 311H  
ECO 329  
E E 312 or 312H  
C E 311K  
PGE 310  
M 362K or 325K or 325KH  
M E 318M  
PGE 337  
PHY 329  
PSY 418  
SOC 317L | Aerospace Engineering  
Architecture  
Architectural Engineering  
Business/ Business Honors  
Biology / Public Health  
Biochemistry / Neuroscience  
Biomedical Engineering  
Chemical Engineering  
Civil Engineering  
Computational Engineering  
Computer Science / Dean’s Scholars  
Economics  
Electrical & Computer Engineering  
Environmental Engineering  
Geo. Engineering & Hydrogeology  
Mathematics  
Mechanical Engineering  
Petroleum Engineering  
Physics  
Psychology  
Sociology  
Anyone may use these substitutions |
| Math                              | M 310P          | M 408C + M 408D  
M 408K/R + M 408L + M 408M  
M 408N/R + M 408S + M 408M  
AP credits in calculus may fulfill part or all of this requirement (DS and Mathematics majors may take alternative math sequence) | Engineering, Business, Natural Sciences & Economics majors require some calculus  
Anyone may use these substitutions |
| Biology                           | BIO 301E        | BIO 311C + BIO 311D  
BIO 315H  
(BME majors may substitute BIO 311C + BIO 325) | Biology, BME, and pre-med require these courses  
Anyone may use these substitutions |
| Physics                           | PHY 321         | 2 upper division PHY courses (excluding 370C, 371C, 341)  
2 upper division BCH courses (excluding 369K)  
BME 365R + BME 365S  
NEU 330 + NEU 335  
NTR 342 + upper division BCH course (excluding BCH 369K) | Biochemistry, Biomedical Engineering, Chemistry, Neuroscience, Nutrition, and Physics majors require these courses; some Engineering, other Natural Science majors, or pre-med students may also take these courses.  
Fields of study may be combined with the exception of the BME and NEU substitution sequences.  
ex: PHY + BCH  
Anyone may use these substitutions |

See your advisor with questions about how these substitutions apply to your academic plan.