

Plan II Math/Science Requirements & Substitutions (*all catalogs*)

Requirement: 18 HOURS TOTAL	Plan II Courses	Exceptions & Substitutions	Majors Using Exceptions
Logic / Modes of Reasoning	PHL 313Q / T C 310	ASE 211K ARC 311K C E 311K STA 309H or 371H or 375H or 371G SDS 328M SDS 328M BME 335 CHE 348 C E 311K COE 211K C S 311 or 311H ECO 329 E E 312 or 312H C E 311 K 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 may take alternative math sequence – see advisor)	Engineering, Business, Natural Sciences & Economics majors require some calculus Anyone may use these substitutions
Biology	BIO 301E	BIO 311C + BIO 311D or 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) or 2 upper division CH courses (excluding 320M/328M, 320N/328N, 220C, 128K, 128L, 341, 644, 144K, 144L, 368, 368L, 369K, 371K, 372C, 375K/475K) or 2 upper division BCH courses (excluding 369K)	Physics, Chemistry, and Biochemistry majors require these courses; some Engineering, other Natural Science majors, or pre-med students may also take these courses (see your advisor) Anyone may use these substitutions
6 hours in one discipline (AST, BIO, CH, GEO, MNS, P S/PHY)	BIO 301D or 311C pairs with BIO 301E; PHY 309K, 302K or P S 303 pairs with PHY 321	AP Credits in PHY, BIO, or CH may apply; 6 hours of AST, GEO, MNS or P S from an approved list may also be chosen	Anyone may apply appropriate credit by exam
3 additional hours math or science	Chosen from an approved list	Credit by exam may apply	Anyone may apply appropriate credit by exam