

Biology Selective (3 credits)

- _____ (3) BIOL 23000 Biology of the Living Cell (*CHM 11600 & MA 16200*)
- _____ (3) BIOL 23100 Biology III: Cell Structure and Function (*BIOL 11100 & CHM 11600*)
- _____ (3) *CHM 33900: Biochemistry: A Molecular Approach (*CHM 26200*)
- _____ (3) *CHM 53300 Introductory Biochemistry (*Junior Classification, CHM 26200, CHM 32100*)
- _____ (3) BCHM 30700 Biochemistry (*CHM 26200*)
- _____ (3) *BCHM 56100 General Biochemistry I (*Sophomore 45-59 Classification, CHM 26200*)

*Students minoring in Chemistry can take **CHM 33900/ CHM 53300/ BCHM 56100** to fulfill both minor requirements and the ChE Bio Selective.

Chemical Engineering Selective (3 credits)

- _____ (3) ABE 58000 Process Engineering of Renewable Resources
- _____ (3) CHE 33000 Principles of Molecular Engineering (*CHE 21100*)
- _____ (1-3) CHE 41100 ChE Research (*Junior Classification, Instructor Permission*)
- _____ (1-3) CHE 41200 ChE Design Research Problems (*Junior Classification, Instructor Permission*)
- _____ (3) CHE 44200 Chemistry and Engineering of High Polymers (*CHM 26200 & CHM 37000*)
- _____ (1) CHE 46100 Biomedical Engineering
- _____ (3) CHE 46300 Applications of ChE Principles (*CHE 37800*)
- _____ (3) CHE 49700 Course Titles Vary
- _____ (3) CHE 49800 Undergrad Thesis Research I (*Instructor Permission & Admission to CHE Honors Program*)
- _____ (3) CHE 49900 Undergrad Thesis Research II (*Instructor Permission & Admission to CHE Honors Program*)
- _____ (3) Any CHE 500 level course

*Students cannot earn credit in both **CHE 52500** and **ABE 58000**

*CHE offers multiple **CHE 49700 & 59700** courses which can be identified by course title – refer to the Schedule of Classes for current offerings

*CHE 49700 Chemical Engr Study Abroad does not count for CHE Elective – rather a Technical Selective or General Education Elective

Engineering Selective (6 credits)

- _____ (3) CHE 40100 Co-Op Seminar II (*Co-Op Students only*)
- _____ (3) Any Chemical Engineering Selective
- _____ (3) Any AAE, ABE, BME, CE, CEM, ECE, IE, MSE, ME AND NUCL course (*Must meet pre-req listed in MyPurdue to enroll*)

*The following courses **DO NOT** count in CHE: **ABE 20100, 21000, 30800, 37000, IE 23000, 33000 and ME 30900, 35100**

*CHE 49700 Chemical Engr Study Abroad does not count for an ENGR Elective – rather a Technical Selective or General Education Elective

Math Selective (6-7 credits)

- _____ (3) Math Selective I: MA 26500 Linear Algebra (*MA 26100 Minimum Grade of C-*)
 - _____ (4) Math Selective II: MA 36600 Ordinary Differential Equations (*MA 26100 & 26500 Minimum Grade of C-*)
 - _____ (3) MA 26600 Ordinary Differential Equations (*MA 26100 Minimum Grade of C-*)
- OR
- _____ (3) Math Selective I: * MA 35100 Elementary Linear Algebra (*MA 26100 Minimum Grade of C-*)
 - _____ (4) Math Selective II: *MA 36600 Ordinary Differential Equations (*MA 26100 & 26500 Minimum Grade of C-*)
- OR
- _____ (4) Math Selective I: MA 26200 Linear Algebra and Diff Equations (*MA 26100 Minimum Grade of C-*)
 - _____ (3) Math Selective II: MA 30300 Differential Equations and Partial Differential Equations (*MA 26200*)
 - _____ (3) MA 30400 Differential Equations and Analysis of Nonlinear Systems (*MA 26500 & 26600/36600*)
 - _____ (3) MA 51400 Numerical Analysis (*Junior Classification*)
 - _____ (3) ME 58100 Numerical Methods in Mechanical Engineering (*Junior Classification, ME 31500 & 35200*)

*Suggested courses for students pursuing a minor or dual major in math

Technical Selective (3 credits)

- _____ (3) BCHM – Any biochemistry course excluding BCHM 307 & 56100 if used for Biology Selective
- _____ (3) BIOL – Any biology course excluding 11000, 13500, 14600 and 14700
- _____ (3) CHE 49700 Chemical Engr Study Abroad
- _____ (3) CHM 22400 Intro to Quantitative Analysis (*CHM 11600*)
- _____ (3) CHM 24100 Intro to Inorganic Chemistry
- _____ (4) CHM 32100 Analytical Chemistry I (*CHM 11600*)
- _____ (4) CHM 32300 Analytical Chemistry I (*CHM 11600*)
- _____ (3) CHM 33300 Principles of Biochemistry (*CHM 26200*)
- _____ (3) CHM 34200 Inorganic Chemistry
- _____ (4) CHM 42400 Analytical Chemistry (*CHE 21100 & CHM 37000*)
- _____ (3) CHM – Any chemistry course above 42400
- _____ (3) CS – Any computer science course
- _____ (3) EAPS – Any Earth and Atmospheric Science course
- _____ (3) EPCS – Any 3 credit hours of Epics
- _____ (3) Engineering Selective – Any Engineering Selective
- _____ (3) GEP – Any 3 credit hours of Global Engineering Programs 20000 and above
- _____ (3) MGMT 20000 Introductory Accounting or MGMT 20010 Business Accounting
- _____ (3) MGMT 24300 Minorities in Management
- _____ (3) MATH – MA 30100, 30800, 34100, 35300, 36200, 37000 and any course above 37300
- _____ (3) IPPH 36200 Basic Pharmaceuticals
- _____ (3) IPPH 56200 Intro to Pharma Manufacturing Processes
- _____ (3) PHAD Food and Drug Law I
- _____ (3) PHYS – Any physics course 30000 or above
- _____ (3) STAT – Any statistic course 51100 or above

Prerequisites are listed in *italics*.