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**ChE Selectives**

Select course for each requirement

**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 43300 Biochemistry or 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 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 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 56200 Intro to Pharma Manufacturing Processes  |
|  | (3)  | HSOP 50100 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*.**

**ChE Selectives Continued**

### CHE General Education Selective Core Requirements

For a complete listing of course options for the **Behavioral Social Science Selective, Humanities Selective, and Science, Technology & Society Selective,**please visit the [Provosts website](http://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html).

For the **General Education Selective,** students must complete any course in the approved subjects below offered by the College of Liberal Arts, the Krannert School of Management and/or the Honors College, provided the course is open to students in the offering department and the student qualifies to take the course.

For the **Upper Level General Education Selectives**, students must complete courses in the approved subjects below at the 30000 level or above, or from courses with a required prerequisite in the same department.

**Approved subjects in these colleges include**:

AAS, AD, AGEC, AMST, ANTH, ARAB, ASAM, ASL, CHNS, CLCS, CMPL, COM, CSR, DANC, ECON, ENGL, ENTR, FLL/LC, FR, FS, GER, GREK, HDFS, HEBR, HIST, HONR, IDIS, ITAL, JWST, JPNS, LALS, LATN, LING, MARS, MGMT, MUS, NUTR 30300, OBHR, PHIL, POL, PSY, PTGS, REL, RUSS, SLHS, SOC, SPAN, THTR, TLI, WGSS