## 2026 Academic Planning Form: PRE-ENGINEERING B.S.

1st course(s) recommended for Pre- Engineering B.S. (3+2 Program) - EPS 101 and/or 131, MTH 131, ECN 101

5/20/2022

|  | Fall Semester  | # of<br>Credits | Spring Semester  | # of<br>Credits | Total Year<br>Credits |
|--|--|-----------------|--|-----------------|-----------------------|
| 1 <sup>st</sup> Year   | DWC 101 (4 credit hrs; Honors 5 credit hrs)  | 4               | DWC 102 (4 credit hrs; Honors 5 credits hrs)   | 4               |                       |
|  | MTH 131 Calc & Analytical Geometry I (Quantitative Reasoning Core)                     | 4               | MTH 132 Calc & Analytical Geometry II  | 4               |                       |
|  | EPS 101 General Physics I w/ Lab   | 4               | EPS 102 General Physics II w/ Lab  | 4               |                       |
|  | EPS 131 Intro to Engineering   | 1               | Fine Arts Core   | 3               |                       |
|  | ECN 101 Principles of Micro Econ (required by affiliate schools) (Social Science Core) | 3               | Intensive Writing I Proficiency  | 3               |                       |
|  |  | 16              |  | 18              | 34                    |
| 2 <sup>nd</sup> Year   | DWC 201 (4 credit hrs; Honors 5 credit hrs)  | 4               | DWC 202 (4 credit hrs; Honors 5 credits hrs)   | 4               |                       |
|  | EPS 201 Intro Modern Physics w/ Lab (Oral Communication<br>Proficiency)                | 4               | EPS 301 Mechanics  | 3               |                       |
|  | MTH 223 Calc & Analytical Geometry III   | 4               | MTH 304 Differential Equations   | 3               |                       |
|  | Philosophy Core  | 3               | Theology (200 Level) Core  | 3               |                       |
|  | Diversity Proficiency  | 3               | Free Elective  | 3               |                       |
|  |  | 18              |  | 16              | 34                    |
| 3 <sup>rd</sup> Year   | MTH 318 Topics in Applied Mathematics  | 3               | EPS 202 Electronic Devices with Lab (Intensive Writing II<br>Proficiency)  | 4               |                       |
|  | EPS 221 Scientific Programming   | 3               | EPS 430 Thermodynamics   | 3               |                       |
|  | CHM 101 General Chemistry I w/ Lab (or CHM 121) (Natural Science Core)                 | 4               | CHM 102 General Chemistry II w/ Lab (or CHM 122)   | 4               |                       |
|  | Ethics Core  | 3               | Civic Engagement Proficiency   | 3               |                       |
|  | Theology (300 Level) Core  | 3               | Free Elective  | 3               |                       |
|  |  | 16              |  | 17              | 33                    |
| 4 Year   |  |                 |  |                 |                       |
|  |  | 0               |  | 0               | 0                     |
| *Graduation Requirement includes a minimum of 120 credit hours*  |  |                 | Total Program of   | Study Credits   | 101                   |
| The EPS Majors' curriculum fulfills the Quantitative Reasoning, Social Science and Natural Science Cores; the Intensive Writing II and Oral Communication Proficiencies; Note that each<br>Engineering subfield (e.g. Biomedical, Civil, Mechanical, Chemical, etc.) may require additional courses beginning in the second year of study. |  |                 |  |                 |                       |
| Core requirements include a foundational component and satisfaction of all proficiencies.  |  |                 |  |                 |                       |
| Foundational Component:  |  | Proficiencies:  |  |                 |                       |
| <ul> <li>DWC - 4 semester sequence, 16-20 cr.</li> <li>Theology (200 &amp; 300 level) - 6 cr.</li> <li>Philosophy (1 Ethics) - 6 cr.</li> <li>Natural Science - 3 cr. (CHM 101)</li> <li>Social Science - 3 cr. (ECN 101)</li> <li>Quantitative Reasoning - 3 cr. (MTH 131)</li> <li>Fine Arts - 3 cr.</li> </ul>                          |  |                 | <ul> <li>Intensive Writing - I</li> <li>Intensive Writing - II (EPS 202)</li> <li>Diversity</li> <li>Civic Engagement</li> <li>Oral Proficiency (EPS 201)</li> </ul> |                 |                       |
| Major Requirements (EPS Courses):  |  |                 |  |                 |                       |
| <ul> <li>EPS 101, 102, 131, 201, 202, 221, 222, 301, 430</li> <li>CHM 101-102 (or 121-122)</li> </ul>  |  | • ]<br>• ]      | MTH 131-132, 223, 304, 318<br>ECN 101 (required by affiliate schools)  |                 |                       |