**B.S. Engineering Dual Degree (Even Year Cohort)**

**Recommended Course Sequence**

**1st Semester (Fall Even Yr) 2nd Semester (Spr Odd Yr)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject** | **No** | **Course** | **Cr** | **Subject** | **No** | **Course** | **Cr** |
| ENGL | 101 | College Writing (LS Skills) | 3 | ENGL | 121 | Intro to Literature (LS Humanities) | 3 |
| MATH | 125 | Calculus I– Phys. (LS Skills) | 3 | MATH | 126 | Calculus II– Phys. | 3 |
| PHYS | 131 | Phys I Calc– Lecture | 3 | PHYS | 132 | Phys II Calc – Lec | 3 |
| PHYS | 141 | Phys I Calc– Lab) | 1 | PHYS | 142 | Phys II Calc– Lab | 1 |
| HPED | 143 | Health & Wellness | 3 | HIST | 196 | US History (LS Humanities)† | 3 |
| ARHI | 101 | Intro Art (LS Fine Arts\* ) | 3 | COSC | 110 | Structural Prog | 3 |
|  |  |  | **16** |  |  |  | **16** |

**3rd Semester (Fall Odd Yr) 4th Semester (Spr Even Yr)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject** | **No** | **Course** | **Cr** | **Subject** | **No** | **Course** | **Cr** |
| MATH | 241 | Differential Equations | 3 | PHYS | 110 | Engineering Physics (Elective) | 3 |
| MATH | 225 | Calc III – For Phys. | 3 | PHYS | 331 | Modern Physics | 3 |
| CHEM | 111 | General Chemistry I | 4 | CHEM | 112 | General Chemistry II | 4 |
| ENGL | 202 | Research Writing(LS Skills) | 3 | COSC | 250 | Intro Numerical Methods | 3 |
| PHYS | 260 | Nanotechnology | 3 | PHIL | 122 | Cont Moral Issues (LS Humanities)† | 3 |
| PHIL | --- | LS Humanities (Phil/Rel St)† |  |  |  |  |  |
|  |  |  | **16** |  |  |  | **16** |

**5th Semester (Fall Even Yr) 6th Semester (Spr Odd Yr)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject** | **No** | **Course** | **Cr** | **Subject** | **No** | **Course** | **Cr** |
| PHYS | 441 | Classical Mechanics | 3 | MATH | 342 | Adv Math for Applications | 3 |
| PHYS | 3xx | Comput. Physics \*\* (Elective) | 3 | PHYS | 345 | Optics\*\* (Elective) | 3 |
| PHYS | 231 | Electronics | 4 | PHYS | 451 | Electricity and Magnetism | 3 |
| ECON | 101 | Liberal Studies SS #1 | 3 | PHYS | 355 | Computer Interfacing\*\* (Elective) | 3 |
| SOC | --- | Liberal Studies SS #2 | 3 | XXX | --- | Liberal Studies SS #3 | 3 |
|  |  |  |  |  |  |  |  |
|  |  |  | **16** |  |  |  | **15** |

† May take in winter or summer session

\* One course from: Art, Thtr, or Dance.

\*\* These courses are offered every other year.

§ One course from: Global & Multicultural Awareness Category

Note: ENGR course to be included when available

Students not placed in MATH 125, will take MATH 110, and

PHYS 100 (Prelude) or PHYS 101 ( Energy and Env.) during the

First Sementer