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

**Recommended Course Sequence**

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject** | **No** | **Course** | **Cr** | **Subject** | **No** | **Course** | **Cr** |
| MATH | 125 | Calculus I – For Phys. &Chem. | 3 | PHYS | 110 | Principles of Engineering | 3 |
| ENGL | 101 | Composition I- College Writing | 3 | MATH | 126 | Calculus II – For Phys. & Chem. | 3 |
| PHYS | 131 | Phys I Calc–Lecture | 3 | PHYS | 132 | Phys II Calc – Lecture | 3 |
| PHYS | 141 | Phys I Calc–Lab | 1 | PHYS | 142 | Phys II Calc – Lab | 1 |
| HPED | 143 | Health & Wellness\* | 3 | HIST | 196 | Humanities – History # | 3 |
| ARHI | 101 | Liberal Studies Fine Arts(1) | 3 | COSC | 110 | Structured Programming | 3 |
|  |  |  | **16** |  |  |  | **16** |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject** | **No** | **Course** | **Cr** | **Subject** | **No** | **Course** | **Cr** |
| MATH | 241 | Differential Equations | 3 | COSC | 250 | Intro Numerical Methods | 3 |
| MATH | 225 | Calc III – For Phys. & Chem. | 3 | PHYS | 331 | Modern Physics | 3 |
| CHEM | 111 | General Chemistry I | 4 | PHYS | 342 | Optics\*\* (Elective) **OR** | 3 |
| ENGL | 202 | Composition II- Res. Writing | 3 | PHYS | 355 | Computer Interfacing\*\* |  |
| PHYS | 260 | Nanotechnology (elective) **OR** | 3 | CHEM | 112 | General Chemistry II | 4 |
| PHYS | 2xx | Computational Physics\*\* |  | ENGL | 121 | Humanities Literature | 3 |
| PHIL | --- | LS Humanities (Phil/Rel St)## | (3) |  |  |  |  |
|  |  |  | **16** |  |  |  | **16** |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subject** | **No** | **Course** | **Cr** | **Subject** | **No** | **Course** | **Cr** |
| PHYS | 231 | Electronics | 4 | MATH | 342 | Advanced Math for Application | 3 |
| PHYS | 350 | Intermediate Exp. Phys I **OR** | 3 | PHYS | 3xx | Free Elective (Exp. Phys.) | 3 |
| PHYS | 401 | Theoretical Phys\*\* (Elective) |  | PHYS | 345 | Thermal & Statistical\*\* (Elective) | 3 |
| PHYS | 441 | Classical Mechanics | 3 | PHYS | 451 | Electricity and Magnetism | 3 |
| ECON | 101 | Liberal Studies SS #1 | 3 | XXX | --- | Liberal Studies SS #3 | 3 |
| SOC | --- | Liberal Studies SS #2 | 3 |  |  |  |  |
|  |  |  | **16** |  |  |  | **15** |

(1) One course from: Art, Thtr, or Dance.

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

§ One course from: Global & Multicultural Awareness category

# May substitute with another course

## May take in Winter/Summer session

Note: This course sequence assumes placement in MATH 125.

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

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

First Sementer