**Northwest Nazarene University**

**Bachelor of Science in Engineering – Non-Calculus Start – Five Year Plan**

**2023-24 Plan of Study (132 credits)**

# **Fall First year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| ENGR 1010 | 3 | Intro to Engineering | ENGR 1050 | 3 | Engr CAD & Prototyping |
| MATH 1300 | 3 | College Algebra | MATH 1400 | 3 | Trigonometry |
| HUMN1020 | 1 | Cornerstone | KINE | 2 | Wellness & Activity |
| ENGL 1040 | 3 | University Writing | BIBL 1100 | 3 | Biblical Studies |
|  | **10** |  |  | **11** |  |

# **Fall Second year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| MATH 2510 | 4 | Calculus I | MATH 2520 | 4 | Calculus II |
| ENGR 1100 | 3 | Engineering Software Skills | PHYS 2110 | 4 | Physics I + Lab |
|  | 3 | US History Elective | ENGL 3015 | 3 | Technical Writing |
| CHEM 2230 | 4 | Chemistry for Engineer+Lab | THEO 2100 | 3 | Christian Theology |
|  | **14** |  |  | **14** |  |

# **Fall Third year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| ENGR 2100 | 3 | Statics | ENGR 2110 | 3 | Dynamics |
| ENGR 2200 | 4 | Digital Systems + Lab | ENGR 2210 | 4 | Electrical Circuits + Lab |
| MATH 3540 | 4 | Differential Equations | MATH 3530 | 4 | Calculus III |
| PHYS 2120 | 4 | Physics II + Lab | ENGR 2310 | 1 | Instrumentation &Msmt Lab |
|  | **15** |  |  | **12** |  |

# **Fall Forth year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| ENGR 3400 | 4 | Control Systems + Lab | ENGR 3410 | 3 | Engineering Econ & Ethics |
| PHYS 3500 | 3 | Statistical Analysis for P&E | ENGR3110L | 1 | Materials & Thermo Lab |
| ENGR 3100 | 3 | Mechanics of Materials | ENGR 3110 | 3 | Thermodynamics |
|  |  |  | ENGL | 3 | Literature Elective |
| ENGR 4XXX | 4 | ENGR Conc + Lab | ENGR 4XXX | 4 | ENGR Conc + Lab |
|  | **14** |  |  | **14** |  |

# **Fall Fifth year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| ENGR 4971 | 2 | Senior Design Project I | ENGR 4972 | 2 | Senior Design Project II |
|  | 3 | Art/Music Elective |  | 3 | Philosophy Elective |
| COMM3211 | 3 | Technical Communication |  | 3 | Non US History Elective |
| ENGR 4XXX | 3 | ENGR Conc |  | 3 | Bible/Theology Elective |
| ENGR 4XXX | 3 | ENGR Conc | ENGR 4XXX | 3 | ENGR Conc |
|  | **14** |  |  | **14** |  |

# 