**Northwest Nazarene University**

**Bachelor of Science in Physics**

**2023-24 Plan of Study (125 credits)**

# **Fall Freshman 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 | 3 | Physics I |
|  |  |  | PHYS2110L | 1 | Physics I Lab |
| HUMN1020 | 1 | Cornerstone | KINE | 2 | Wellness & Activity |
| ENGL 1040 | 3 | University Writing | BIBL 1100 | 3 | Biblical Studies |
|  | 3 | Elective |  | 3 | Elective |
|  | **14** |  |  | **16** |  |

# **Fall Sophomore year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| MATH 3540 | 4 | Differential Equations | MATH 3530 | 4 | Calculus III |
| PHYS 2120 | 3 | Physics II | ENGR 2310 | 1 | Instrumentation &Msmt Lab |
| PHYS2120L | 1 | Physics II Lab | PHYS 3130 | 3 | Modern Physics |
| THEO 2100 | 3 | Christian Theology | PHYS3130L | 1 | Modern Physics Lab |
|  | 3 | Elective |  | 3 | Social Science Elective |
|  | 3 | Elective |  | 3 | Elective |
|  | **17** |  |  | **15** |  |

# **Fall Junior year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| PHYS 3500 | 3 | Statistical Analysis for P&E |  | 3 | Bible/Theology Elective |
| MATH 3560 | 3 | Numerical Analysis | CHEM3510 | 3 | Thermodynamics & Kinetics |
| CHEM 2230 | 4 | Chemistry for Engineers+La | ENGL | 3 | Literature Elective |
|  | 3 | Elective | PHYS 4810 | 3 | Quantum Mechanics |
| PHYS 3410 | 3 | Analytic Mechanics | ENGL 3015 | 3 | Technical Writing |
|  | **16** |  |  | **15** |  |

# **Fall Senior year Spring**

| **Course #** | **Cr** | **Course Title** | **Course #** | **Cr** | **Course Title** |
| --- | --- | --- | --- | --- | --- |
| PHYS 4970 | 1 | Senior Research | PHYS 4980 | 1 | Senior Capstone |
|  | 3 | Art/Music Elective |  | 3 | Philosophy Elective |
|  | 3 | Elective |  | 3 | Non US History Elective |
| COMM3211 | 3 | Technical Communication |  | 3 | US History Elective |
| PHYS4610 | 3 | Electromagnetics | PHYS4720 | 3 | Solid State Physics |
|  | 3 | Elective |  | 3 | Elective |
|  | **16** |  |  | **16** |  |

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