Bachelor of Science (BS) in Mathematics and Physics\*

\*Physics Concentration – Suggested Program by Semester

SUBR

**Freshman Year** 1st Semester 2nd

Semester

|  |  |  |
| --- | --- | --- |
| **Course No.** | **Cr. Course No.** | **Cr.** |
| Discovery in Physics PHYS 145 | 3 General Physics II PHYS 222 | 3 |
| Calculus I MATH 264 | 4 General Physics II Lab PHYS 224 | 1 |
| General Physics I PHYS 221 | 3 Calculus II MATH 265 | 4 |
| General Physics I Lab PHYS 223 | 1 General Chemistry I CHEM 132 | 3 |
| Freshman Composition ENGL 110 | 3 General Chemistry I Lab CHEM 112 | 1 |
| Freshman Seminar FRMN 110 | 1 Freshman Composition II ENGL 111 | 3 |
| Health/PE Activities | 2 Freshman Seminar FRMN 111 | 1 |
| **TOTAL**  **Sophomore Year** 1st  Semester | 17 **TOTAL**  2nd  Semester | 16 |
| **Course No.** | **Cr. Course No.** | **Cr.** |
| General Chem. II CHEM 133 | 3 Modern Physics PHYS 271 | 3 |
| General Chem. II Lab CHEM 113 | 1 Mathematical Physics PHYS 311 | 3 |
| Calculus II MATH 364 | 4 Humanities Elective | 3 |
| Programming in Physics PHYS 200 | 3 History Sequence HIST 115 | 3 |
| History Sequence HIST 114 | 3 General Biology I BIOL 104 | 3 |
| Literature Elective ENGL | 3 General Biology I Lab BIOL 106 | 1 |
| **TOTAL**  **Junior Year** 1st  Semester | 17 **TOTAL**  2nd  Semester | 16 |
| **Course No.** | **Cr. Course No.** | **Cr.** |
| Experimental Physics I PHYS 341 | 3 Experimental Physics II PHYS 342 | 3 |
| Advanced Mechanics I PHYS 416 | 3 Thermodynamics PHYS 345 | 3 |
| Statistics-Sci. & Eng. MATH 276 | 3 Adv. E & M Theory I PHYS 425 | 3 |
| Adv. Math. Physics PHYS 411 | 3 Foreign Language II 101 | 3 |
| Foreign Language I 100 | 3 Technical Writing ENGL 362 | 3 |
|  |  |  |
| **TOTAL**  **Senior Year** 1st  Semester | 15 **TOTAL**  2nd  Semester | 15 |
| **Course No.** | **Cr. Course No.** | **Cr.** |
| Quantum Physics I PHYS 435 | 3 Physics Elective PHYS | 3 |
| Free Elective | 3 Free Elective | 3 |
| Social Science Elective | 3 Social Science Elective | 3 |
| Computational Physics PHYS 400 | 3 Art Elective | 3 |
| **TOTAL** | 12 **TOTAL** | 12 |

Note: Common Core Courses are in Blue

At least one free elective will be a three (3) credit course in Mathematics