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