

**Bachelor of Science****Physics****Major Code PH00****CIP Code: 400801****Cr Hrs**

|   |   |            |
|---|---|------------|
| <b>General Education CORE 42 Requirements 42*</b> |   | <b>32</b>  |
| Area 1A   | Social & Behavioral Sciences                    | 6          |
| Area 1B   | Civic Engagement                                | 3          |
| Area 2A   | Written Communication                           | 6          |
| Area 2B   | Oral Communication                              | 3          |
| Area 3A   | Natural Science Non-Lab (CHEM 140)              |            |
| Area 3B   | Natural science With Lab (PHYS 270)             |            |
| Area 4  | Mathematics (MATH 130)                          |            |
| Area 5A   | Humanities                                      | 6          |
| Area 5B   | Fine Arts                                       | 3          |
| Area 5C   | Global Competencies                             | 3          |
| Area 5D   | Health and Wellness                             | 2          |
| <b>UE 100</b>                                     | <b>First Year Experience**</b>                  | <b>1</b>   |
| <b>Physics Requirements</b>                       |   | <b>39</b>  |
| PHYS 270  | General Physics I***                            | 4          |
| PHYS 290  | General Physics II                              | 4          |
| PHYS 291  | General Physics II Lab                          | 1          |
| PHYS 301  | Modern Physics***                               | 4          |
| PHYS 322  | Classical Mechanics***                          | 3          |
| PHYS 341  | Thermal Physics***                              | 4          |
| PHYS 360  | Mathematical Methods for Physics                | 4          |
| PHYS 381  | Intermediate Physics Laboratory***              | 3          |
| PHYS 401  | Electricity & Magnetism***                      | 4          |
| PHYS 452  | Quantum Mechanics***                            | 3          |
| PHYS 490  | Seminar   | 1          |
| Physics Elective (Upper Division)                 |   | 4          |
| <b>Supporting Requirements</b>                    |   | <b>23</b>  |
| CHEM 140  | General Chemistry I***                          | 3          |
| CHEM 141  | General Chemistry I Lab***                      | 1          |
| MATH 150  | Calculus with Analytical Geometry I***          | 5          |
| MATH 250  | Calculus with Analytical Geometry II***         | 4          |
| MATH 260  | Calculus with Analytical Geometry III***        | 4          |
| MATH 322  | Differential Equations***                       | 3          |
| CIS 110   | Programming I                                   | 3          |
| <b>Electives****</b>                              |   | <b>25</b>  |
| <b>Total Hours</b>                                | Must include at 39 upper division (300-400) hrs | <b>120</b> |

Gen. Ed. Core 42 Requirements: Area 3A&B satisfied by CHEM 140 and PHYS 270 (7 hrs), Area 4 satisfied by MATH 150 (3 hrs)

\*\*\* See prerequisites

\*\*\*\*Suggested electives CHEM 142, CIS 210, MATH 351