



**Sample 4 Year Plan  
Bachelor of Science  
Physics  
Astrophysics Concentration**

|                   |                  | <b>Fall Semester</b>                        |                   | <b>Spring Semester</b>    |  |   |
|-------------------|------------------|---|-------------------|---------------------------|--|---|
|                   |                  | <b>Course Information</b>                   | <b>Credit Hrs</b> | <b>Course Information</b> | <b>Credit Hrs</b>                            |   |
| <b>First Year</b> | <b>AP</b>        | UNIV 1000 – University Success              | 1                 | <b>AP</b>                 | ENGL 1020 – English Composition II           | 3 |
|                   | <b>AP</b>        | ENGL 1010 – English Composition I           | 3                 |                           | ASTR 1020/1021 – Stellar Astronomy w/lab     | 4 |
|                   |                  | ASTR 1010/1011 – Planetary Astronomy w/lab  | 4                 | <b>AP</b>                 | PHYS 2120/2121 – University Physics II w/lab | 4 |
|                   | <b>AP</b>        | MATH 1910 – Calculus I                      | 4                 |                           | MATH 1920 – Calculus II                      | 4 |
|                   | <b>AP</b>        | PHYS 2110/2111 – University Physics I w/lab | 4                 |                           | PHYS 2050 – Seminar I                        | 1 |
|                   | <b>TOTAL SCH</b> |   |                   | <b>16</b>                 | <b>TOTAL SCH</b>                             |   |

|                    |                  | <b>Fall Semester</b>                           |   | <b>Spring Semester</b> |   |   |
|--------------------|------------------|--|---|------------------------|---|---|
| <b>Second Year</b> |                  | PHYS 3150 – Seminar II                         | 1 |                        | MATH 3120 – Differential Equations I            | 3 |
|                    | <b>AP</b>        | COMM 2045 – Public Speaking                    | 3 |                        | CSCI 2000 – Programming for STEM                | 4 |
|                    |                  | ENGR 3003 – Advanced Engineering Mathematics I | 3 |                        | ENGR 3004 – Advanced Engineering Mathematics II | 3 |
|                    |                  | MATH 2110 – Calculus III                       | 4 |                        | PHYS 3040/3041 – Experimental Methods           | 4 |
|                    |                  | PHYS 3000 – Intro. to Modern Physics           | 3 |                        |   |   |
|                    |                  | PHYS 3250 – Topics in Relativity               | 1 |                        |   |   |
|                    | <b>TOTAL SCH</b> |  |   | <b>15</b>              | <b>TOTAL SCH</b>                                |   |

|                   |                  | <b>Fall Semester</b>                   |   | <b>Spring Semester</b> |                                       |   |
|-------------------|------------------|--|---|------------------------|---------------------------------------|---|
| <b>Third Year</b> |                  | ASTR 3030/3031 – Observational Methods | 4 |                        | PHYS 3630 – Electricity & Magnetism I | 3 |
|                   |                  | ENGL 2330 – Topics in World Literature | 3 |                        | PHYS 3701 – Advanced Lab              | 2 |
|                   | <b>AP</b>        | History Core                           | 3 | <b>AP</b>              | History Core                          | 3 |
|                   |                  | PHYS 3610 – Classical Mechanics I      | 3 | <b>AP</b>              | Humanities and/or Fine Arts Core      | 3 |
|                   |                  | PHYS 4050 – Seminar III                | 1 |                        | Elective                              | 3 |
|                   | <b>TOTAL SCH</b> |  |   | <b>14</b>              | <b>TOTALSCH</b>                       |   |

|                    |                  | <b>Fall Semester</b>                         |   | <b>Spring Semester</b> |                                     |   |
|--------------------|------------------|--|---|------------------------|-------------------------------------|---|
| <b>Fourth Year</b> |                  | PHYS 3800 – Quantum Mechanics I              | 3 | <b>AP</b>              | Social and Behavioral Sciences Core | 3 |
|                    |                  | PHYS 4000/4001 – Computational Physics w/lab | 4 |                        | Elective                            | 4 |
|                    | <b>AP</b>        | Social and Behavioral Sciences               | 3 |                        | PHYS 4990 – Capstone                | 1 |
|                    |                  | ASTR 4010 – Astrophysics I                   | 3 |                        | ASTR 4020 – Astrophysics II         | 3 |
|                    | <b>AP</b>        | Humanities and/or Fine Arts Core             | 3 |                        | Elective                            | 4 |
|                    | <b>TOTAL SCH</b> |  |   | <b>16</b>              | <b>TOTAL SCH</b>                    |   |

\***AP** designates General Education Core Course to be completed for your degree.

\*\*Bachelor degrees require the completion of 33 upper division (3000 – 4999) credit hours.