**Applied Physics 2020-2021**

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| **Freshman Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | UNV 1000 | Freshman Seminar | 1 |  | ENG 1060 | Composition II | 3 |
|  | ENG 1050 | Composition I | 3 |  | CHM 1310 | General Chemistry II | 3 |
|  | MAT 1090 | Pre-Calculus | 4 |  | CHM 1110 | General Chemistry Laboratory II | 1 |
|  | CHM 1100 | General Chemistry Laboratory I | 1 |  | MAT 2210 | Calculus I | 4 |
|  | CHM 1300 | General Chemistry I | 3 |  | General Education | History | 3 |
|  | General Education | Social Science | 3 |  | General Education | Physical Education | 1 |
| **Total Credits** | | | 15 |  | **Total Credits** | | 15 |

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| **Sophomore Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | MAT 2220 | Calculus II | 4 |  | MAT 3310 | Calculus III | 4 |
|  | PHY 2000 | University Physics I | 3 |  | PHY 2010 | University Physics II | 3 |
|  | PHY 2060 | University Physics Lab I | 1 |  | PHY 2070 | University Physics Lab II | 1 |
|  | General Education | Literature | 3 |  | General Education | Philosophy and Religion | 3 |
|  | General Education | Physical Education | 1 |  | General Education | Fine Arts | 3 |
|  | General Education | Social Science | 3 |  |  |  |  |
| **Total Credits** | | | 15 |  | **Total Credits** | | 14 |

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| **Junior Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | CSC 2050 | Introduction to Programming | 3 |  | General Education | University Wide Elective  (Not from Natural Science and Math Division) | 3 |
|  | MAT3200 | Differential Equations | 3 |  | PHY3560 | Modern Electronics | 3 |
|  | PHY 2560 | Modern Physics | 4 |  | PHY2180 | Optics | 3 |
|  | PHY3000 | Classical Mechanics | 3 |  | PHY3200 | Electricity and Magnetism | 3 |
|  | Elective | Physics (suggested) | 3 |  | Elective | Physics (suggested) | 3 |
| **Total Credits** | | | 16 | **Total Credits** | | | 15 |

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| **Senior Year** | | | | | | | |
| **Fall** | | | | **Spring** | | | |
|  | Course Number | Course Title | Credits |  | Course Number | Course Title | Credits |
|  | MAT 3150 | Linear Algebra | 3 |  | General Education | Social Sciences | 3 |
|  | PHY 3260 | Heat and Temperature | 3 |  | PHY 4990 | Independent Study | 3 |
|  | PHY 4200 | Advanced Laboratory I | 3 |  | Elective | Physics (suggested) | 3 |
|  | Elective | Physics (suggested) | 3 |  | Elective | Physics (suggested) | 3 |
|  | Elective | Physics (suggested) | 3 |  | Elective | Physics (suggested) | 3 |
| **Total Credits** | | | 15 | **Total Credits** | | | 15 |

Note:

PHY2000, CHM1300 and MAT2210 satisfies the Natural Sciences and Mathematics Division General Education Electives

PHY2010 satisfies 3 Sem. Hrs. of the General Education Program Electives