

University of Memphis Physics – General Physics Concentration

First Year

| Fall | | Spring | |
|---|---------------|--|---------------|
| Physics for Scientists and Engineers I (PHYS 2110) | 3 cr. | Physics for Scientists and Engineers II (PHYS 2120) | 3 cr. |
| Physics for Scientists and Engineers I Laboratory (PHYS 2111) | 1 cr. | Physics for Scientists and Engineers II Laboratory (PHYS 2121) | 1 cr. |
| Calculus I (MATH 1910) | 4 cr. | Calculus II (MATH 1920) | 4 cr. |
| General Chemistry I (CHEM 1110) | 3 cr. | General Chemistry II (CHEM 1120) | 3 cr. |
| General Chemistry I Laboratory (CHEM 1111) | 1 cr. | General Chemistry II Laboratory (CHEM 1121) | 1 cr. |
| GE English Composition (ENGL 1010) | 3 cr. | GE English Composition/Analysis (ENGL 1020) | 3 cr. |
| <i>Semester Total</i> | <i>15 cr.</i> | <i>Semester Total</i> | <i>15 cr.</i> |

Second Year

| Fall | | Spring | |
|-----------------------------------|---------------|------------------------------------|---------------|
| Intermediate Physics (PHYS 2130) | 4 cr. | Theoretical Physics (PHYS 3011) | 3 cr. |
| Research in Physics I (PHYS 2990) | 1 cr. | Research in Physics II (PHYS 3990) | 2 cr. |
| Modern Physics (PHYS 3010) | 3 cr. | Differential Equations (MATH 2120) | 3 cr. |
| Calculus III (MATH 2110) | 4 cr. | GE Social/Behavioral Sciences | 3 cr. |
| GE Oral Communication (COMM 2381) | 3 cr. | Elective | 3 cr. |
| | | Elective | 1 cr. |
| <i>Semester Total</i> | <i>15 cr.</i> | <i>Semester Total</i> | <i>15 cr.</i> |

Third Year

| Fall | | Spring | |
|--|---------------|--|---------------|
| Mechanics (PHYS 3111) | 3 cr. | Advanced Physics Methodology (PHYS 3060) | 3 cr. |
| UD Physics Elective | 3 cr. | Electricity and Magnetism I (PHYS 3211) | 3 cr. |
| GE Literary Heritage (ENGL 2201 or 2202) | 3 cr. | GE History | 3 cr. |
| GE History | 3 cr. | GE Humanities/Fine Arts | 3 cr. |
| UD Elective | 3 cr. | GE Social/Behavioral Sciences | 3 cr. |
| <i>Semester Total</i> | <i>15 cr.</i> | <i>Semester Total</i> | <i>15 cr.</i> |

Fourth Year

| Fall | | Spring | |
|---|---------------|---|---------------|
| Waves and Optics (PHYS 4211) | 3 cr. | Introduction to Computational Physics (PHYS 4420) | 3 cr. |
| Introduction to Quantum Mechanics (PHYS 4410) | 3 cr. | Thermal and Statistical Physics (PHYS 4510) | 3 cr. |
| UD Physics Elective | 3 cr. | GE Humanities/Fine Arts | 3 cr. |
| UD Elective | 3 cr. | UD Elective | 3 cr. |
| Elective | 3 cr. | Elective | 3 cr. |
| <i>Semester Total</i> | <i>15 cr.</i> | <i>Semester Total</i> | <i>15 cr.</i> |