



## ENGINEERING PHYSICS (ODD YEAR)

### FRESHMAN – FALL SEMESTER

|                    |  |           |
|--------------------|--|-----------|
| KIN 1162           | Foundations of Physical Fitness/Wellness | 2         |
| MAT 1195           | Calculus I                               | 5         |
| PHY 2215           | University Physics I                     | 5         |
| ENG 1113           | English Composition I                    | 3         |
| UNI 1111           | University Seminar                       | 1         |
| <i>Total hours</i> |  | <i>16</i> |

### FRESHMAN – SPRING SEMESTER

|                    |                                   |           |
|--------------------|-----------------------------------|-----------|
| MAT 2255           | Calculus II                       | 5         |
| PHY 2225           | University Physics II             | 5         |
| CIS 1033           | Foundations of Computer Science   | 3         |
| ENG 2213           | English Composition II            | 3         |
| UNI 1121           | Introduction to Critical Thinking | 1         |
| <i>Total hours</i> |                                   | <i>17</i> |

### SOPHOMORE – FALL SEMESTER

|                    |                                     |           |
|--------------------|-------------------------------------|-----------|
| CHE 1115           | General Chemistry I                 | 5         |
| PHY 2314           | Introduction to Engineering         | 4         |
| MAT 2263           | Calculus III                        | 3         |
| SPF 2012           | Introduction to Spiritual Formation | 2         |
|                    | Gen-Ed/Grad Elective                | 3         |
| <i>Total hours</i> |                                     | <i>17</i> |

### SOPHOMORE – SPRING SEMESTER

|                    |                                       |              |
|--------------------|---------------------------------------|--------------|
| CHE 1125           | General Chemistry II                  | 5            |
| PHY 3233           | Statics                               | 3            |
| PHY 3231           | Statics Laboratory                    | 1            |
| PHY 3263           | Mathematics for Science & Engineering | 3            |
|                    | Gen-Ed/Grad Elective                  | 3            |
|                    | Gen-Ed/Grad Elective                  | 2 or 3       |
| <i>Total hours</i> |                                       | <i>17-18</i> |

### JUNIOR – FALL SEMESTER

|                    |                         |           |
|--------------------|-------------------------|-----------|
| PHY 4233           | Dynamics                | 3         |
| MAT 3323           | Linear Algebra          | 3         |
| MAT 3343           | Mathematical Statistics | 3         |
| CIS 1144           | Computer Science I      | 4         |
|                    | Gen-Ed/Grad Elective    | 3         |
| <i>Total hours</i> |                         | <i>16</i> |

### JUNIOR – SPRING SEMESTER

|                    |                                   |              |
|--------------------|-----------------------------------|--------------|
| PHY 3363           | Modern Physics                    | 3            |
| PHY 3361           | Modern Physics Laboratory         | 1            |
| SCF 3432           | Physics Through the Eyes of Faith | 2            |
| BIO 1004           | Principles of Biology             | 4            |
|                    | Gen-Ed/Grad Elective              | 3            |
|                    | Gen-Ed/Grad Elective              | 2 or 3       |
| <i>Total hours</i> |                                   | <i>15-16</i> |

### SENIOR – FALL SEMESTER

|                    |                              |              |
|--------------------|------------------------------|--------------|
| PHY 3323           | Optics                       | 3            |
| PHY 3321           | Optics Laboratory            | 1            |
| MAT 4433           | Numerical Methods            | 3            |
|                    | Upper-Level Physics Elective | 3            |
|                    | Gen-Ed/Grad Elective         | 3            |
|                    | Gen-Ed/Grad Elective         | 2 or 3       |
| <i>Total hours</i> |                              | <i>15-16</i> |

### SENIOR – SPRING SEMESTER

|                    |                                    |              |
|--------------------|------------------------------------|--------------|
| PHY 4413           | Electricity & Magnetism Theory     | 3            |
| PHY 4411           | Electricity & Magnetism Laboratory | 1            |
| PHY 3464           | Analog & Digital Electronics       | 4            |
|                    | Upper-Level Physics Elective       | 3            |
|                    | Gen-Ed/Grad Elective               | 2 or 3       |
|                    | General Elective or missed         |              |
|                    | Gen-Ed/Grad Elective               | 3            |
| <i>Total hours</i> |                                    | <i>16-17</i> |

*THIS IS A PROPOSED GUIDELINE.* Please check the catalog and see your advisor for your final degree requirements.

Southwest Baptist University reserves the right to make changes to degree plans without advanced notice or obligation.

The student is responsible for understanding and completing all general education, degree, departmental and graduation requirements.