

SAMPLE FOUR YEAR PLAN FOR BS IN APPLIED PHYSICS

FRESHMAN YEAR

| <i>Fall</i> | | <i>Spring</i> | |
|--------------------------------------|-----------|---------------------------------------|-----------|
| Course | #Hours | Course | #Hours |
| First Year Seminar | 4 | Foreign Language | 4 |
| Writing | 4 | Wellness | 2 |
| PHYS 231 Introductory Physics I | 4 | PHYS 232 Introductory Physics II | 4 |
| PHYS 231L Introductory Physics I Lab | 0 | PHYS 232L Introductory Physics II Lab | 0 |
| MATH 231 Calculus I | 4 | PHYS 294 Phys/Eng Seminar | 2 |
| | | MATH 232 Calculus II | 4 |
| | | | |
| Total | 16 | Total | 16 |

SOPHOMORE YEAR

| <i>Fall</i> | | <i>Spring</i> | |
|---------------------------------|-----------|---|-----------|
| Course | #Hours | Course | #Hours |
| Old Testament | 4 | Public Speaking | 2 |
| PHYS 334 Computer Modeling | 2 | ENGR 202 Dynamics or PHYS 341 Analytical Mechanics | 4 |
| ENGR 201 Statics | 4 | PHYS 331 Spacetime and Quanta | 4 |
| Math 333 Differential Equations | 4 | Math 245 Linear Algebra | 4 |
| | | Math 331 Vector Calculus | 2 |
| | | | |
| Total | 14 | Total | 16 |

JUNIOR YEAR

| <i>Fall</i> | | <i>Spring</i> | |
|--|-----------|-------------------------------------|-----------|
| Course | #Hours | Course | #Hours |
| Advanced Seminar (includes at least one Theme) | 4 | Thematic Core (2 of 4*) | 4 |
| Visual and Performing Arts (1 of 2) | 2 | New Testament | 4 |
| Thematic Core (1 of 4*) | 4 | Visual and Performing Arts (1 of 2) | 2 |
| PHYS 345 Data Analysis and Presentation | 2 | PHYS 343 Experimental Physics** | 2 |
| CHEM 231 General Chemistry I | 4 | ENGR Elective | 4 |
| CHEM 231L Gen Chem Lab | 0 | | |
| | | | |
| Total | 16 | Total | 16 |

| SENIOR YEAR | | | |
|--|---------------|---|---------------|
| <i>Fall</i> | | <i>Spring</i> | |
| Course | #Hours | Course | #Hours |
| Thematic Core (3 of 4*) | 4 | Thematic Core (4 of 4*) | 4 |
| Christian Thought | 4 | PHYS 494 Senior Capstone or ENGR 394 Engineering Ethics Capstone | 2 |
| PHYS 351 Analog Electronics | 2 | Elective | 4 |
| PHYS 351L Analog Electronics Lab | 0 | Elective | 4 |
| Elective | 4 | | |
| | | | |
| Total | 14 | Total | 14 |
| | | | |
| *7 Themes not covered by major requirements or VPA but some courses count for 2 Themes and Advanced Seminar counts for one Theme. Sample plan assumes 2 double tagged courses within set of 4 Thematic Core taken. | | **PHYS 343 requirement can be satisfied without credit by approved research or internship experience. | |