

SAMPLE COURSE SEQUENCE
(for students entering in fall 2006, 2008, ...)

| Fall Semester | | Freshman Year | | cr. |
|--|-------------------------|----------------------|-----------------------------------|------------------------------|
| | | cr. | Spring Semester | cr. |
| PHYS 141/151 | Mechanics & Heat* | (3) | PHYS 142/152 | Electricity & Magnetism* (3) |
| PHYS 141L | Experimental Physics I* | (1) | PHYS 142L | Experimental Physics II* (1) |
| MATH 131/151 | Calculus I* | (4) | MATH 132/152 | Calculus II* (4) |
| Core + Elective (ASTR 101) or Christ College | | (8) | ASTR 221 | Observational Astronomy (1) |
| | | | Core + Elective or Christ College | (8) |
| Total credits | | [16] | [17] | |

| Fall Semester | | Sophomore Year | | cr. |
|---------------|----------------------------|-----------------------|-----------------|-------------------------------|
| | | cr. | Spring Semester | cr. |
| PHYS 243 | Modern Physics* | (3) | PHYS 250 | Mechanics* (3) |
| PHYS 281 | Electricity & Electronics* | (3) | PHYS 245 | Experimental Physics III* (1) |
| MATH 253 | Calculus III* | (4) | PHYS 310 | Data Reduction* (1) |
| | Chemistry | (4) | ASTR 252 | Astrophysics (3) |
| | Theology II | (3) | MATH 234 | Diff. Eq./Linear Algebra (4) |
| | | | English 200 | (3) |
| Total credits | | [17] | [15] | |

| Fall Semester | | Junior Year | | cr. |
|---------------|---------------------------|--------------------|-----------------|-------------------------------|
| | | cr. | Spring Semester | cr. |
| PHYS 371 | Electromagnetic Fields I* | (3) | PHYS 360 | Thermal Physics (3) |
| PHYS 345 | Experimental Physics IV* | (1) | PHYS 440 | Condensed Matter Physics (3) |
| PHYS 381 | Advanced Mechanics | (3) | PHYS 372 | Electromagnetic Fields II (3) |
| MATH 434 | Complex Variables | (3) | MATH 430 | Fourier Series (3) |
| CS 157 | Algorithms & Programming | (3) | | Elective (3) |
| | Social Analysis | (3) | | |
| Total credits | | [16] | [15] | |

| Fall Semester | | Senior Year | | cr. |
|---------------|-------------------------|--------------------|-----------------|-----------------------------|
| | | cr. | Spring Semester | cr. |
| PHYS 445 | Experimental Physics V* | (1) | PHYS 445 | Experimental Physics V* (1) |
| PHYS 421 | Quantum Mechanics I | (3) | PHYS 422 | Quantum Mechanics II (3) |
| | Philosophy/History | (3) | PHYS 430 | Nuclear Physics (4) |
| | Theology III | (3) | | Social Analysis (3) |
| | Fine Arts | (3) | | Global Diversity (3) |
| | Elective | (3) | | Elective (3) |
| Total credits | | [16] | [17] | |

The * indicates courses *required* for the Physics major. At least two *additional* PHYS or ASTR courses must be taken to complete the requirements for the Bachelor of Science in Physics. Other PHYS and ASTR courses *may* be taken as electives but are *not required* for the major. You and your adviser may decide to substitute other courses in the arts, humanities, computer science, etc.

SAMPLE COURSE SEQUENCE
(for students entering in fall 2007, 2009, ...)

| Freshman Year | | | |
|--|-------------|---------------------------------------|-------------|
| Fall Semester | cr. | Spring Semester | cr. |
| PHYS 141/151 Mechanics & Heat* | (3) | PHYS 142/152 Electricity & Magnetism* | (3) |
| PHYS 141L Experimental Physics I* | (1) | PHYS 142L Experimental Physics II* | (1) |
| MATH 131/151 Calculus I* | (4) | MATH 132/152 Calculus II* | (4) |
| Core + Elective (ASTR 101) or Christ College | (8) | Core + Elective or Christ College | (8) |
| Total credits | [16] | | [16] |

| Sophomore Year | | | |
|-------------------------------------|-------------|------------------------------------|-------------|
| Fall Semester | cr. | Spring Semester | cr. |
| PHYS 243 Modern Physics* | (3) | PHYS 250 Mechanics* | (3) |
| PHYS 281 Electricity & Electronics* | (3) | PHYS 245 Experimental Physics III* | (1) |
| MATH 253 Calculus III* | (4) | PHYS 310 Data Reduction* | (1) |
| Chemistry | (4) | ASTR 221 Observational Astronomy | (1) |
| Theology II | (3) | MATH 234 Diff. Eq./Linear Algebra | (4) |
| | | English 200 | (3) |
| | | Social Analysis | (3) |
| Total credits | [17] | | [16] |

| Junior Year | | | |
|------------------------------------|-------------|-------------------------------|-------------|
| Fall Semester | cr. | Spring Semester | cr. |
| PHYS 371 Electromagnetic Fields I* | (3) | ASTR 252 Astrophysics | (3) |
| PHYS 345 Experimental Physics IV* | (1) | PHYS 430 Nuclear Physics | (4) |
| PHYS 421 Quantum Mechanics I | (3) | PHYS 422 Quantum Mechanics II | (3) |
| CS 157 Algorithms & Programming | (3) | Elective | (3) |
| Global Diversity | (3) | Fine Arts | (3) |
| Social Analysis | (3) | | |
| Total credits | [16] | | [16] |

| Senior Year | | | |
|----------------------------------|-------------|------------------------------------|-------------|
| Fall Semester | cr. | Spring Semester | cr. |
| PHYS 445 Experimental Physics V* | (1) | PHYS 445 Experimental Physics V* | (1) |
| PHYS 381 Advanced Mechanics | (3) | PHYS 360 Thermal Physics | (3) |
| MATH 434 Complex Variables | (3) | PHYS 372 Electromagnetic Fields II | (3) |
| Theology III | (3) | PHYS 440 Condensed Matter Physics | (3) |
| Philosophy/History | (3) | MATH 430 Fourier Series | (3) |
| Elective | (3) | Elective | (3) |
| Total credits | [16] | | [16] |

The * indicates courses *required* for the Physics major. At least two *additional* PHYS or ASTR courses must be taken to complete the requirements for the Bachelor of Science in Physics. Other PHYS and ASTR courses *may* be taken as electives but are *not required* for the major. You and your adviser may decide to substitute other courses in the arts, humanities, computer science, etc.