

PHYSICS

Bachelor of Science Curriculum Guide

▪ FIRST YEAR

First Semester

| | | | |
|------|-----|----------------------|-------|
| CHEM | 151 | General Chemistry | 4 |
| COMM | 105 | Public Speaking | 2 |
| ENGL | 111 | College Writing I | 3 |
| MATH | 121 | Precalculus | 5 |
| HHPA | 155 | Concepts of Wellness | 2 |
| | | | Total |
| | | | 16 |

Second Semester

| | | | |
|------|-----|--------------------|-------|
| CHEM | 252 | General Chemistry | 4 |
| MATH | 184 | Calculus I | 4 |
| ENGL | 112 | College Writing II | 3 |
| RELT | 141 | Christian Beliefs | 3 |
| HHPA | | Activity Elective | 1 |
| | | | Total |
| | | | 15 |

▪ SECOND YEAR

First Semester

| | | | |
|------|-----|--------------------|-------|
| MATH | 285 | Calculus II | 4 |
| CPTR | 226 | Computer Science | 4 |
| PHYS | 251 | College Physics | 4.5 |
| HHPA | | Activity Elective | 1 |
| | | Fine Arts Elective | 2 |
| | | | Total |
| | | | 15.5 |

Second Semester

| | | | |
|------|-----|--------------------------------------|-------|
| MATH | 286 | Calculus III | 4 |
| PHYS | 252 | College Physics | 4.5 |
| PHYS | 296 | Research Methods I | 1 |
| RELB | | Religion Elective (Biblical Studies) | 3 |
| HIST | | History Elective | 3 |
| | | | Total |
| | | | 15.5 |

▪ THIRD YEAR

First Semester

| | | | |
|-------------------|-----|-----------------------------------|-------|
| PHYS | 228 | Electric Circuit Analysis | 4 |
| PHYS | 241 | Classical Mechanics @ NWU | 3 |
| PHYS | 386 | Research Methods II | 1 |
| MATH [^] | 385 | Differential Equations | 3 |
| PHYS [^] | 261 | Thermal Physics @ NWU Elective | 3 |
| | | | Total |
| | | | 16 |

Second Semester

| | | | |
|------|-----|--|-------|
| PHYS | 350 | Modern Physics | 4 |
| PHYS | 396 | Research Methods III | 1 |
| PHYS | 242 | Classical Mechanics @ NWU | 3 |
| REL | | Religion Elective | 3 |
| MATH | | Math Elective (Above 310) Social Science Elective | 3 |
| | | | Total |
| | | | 17 |

▪ FOURTH YEAR

First Semester

| | | | |
|-------------------|-----|------------------------------|-------|
| PHYS | 496 | Research Methods IV | 1 |
| PHYS [^] | 209 | Electromagnetic Theory @ NWU | 3 |
| PHYS [^] | 351 | Quantum Mechanics | 4 |
| REL | | Religion Elective | 3 |
| ENGL | | Literature Elective | 3 |
| | | Elective | 3 |
| | | | Total |
| | | | 16 |

Second Semester

| | | | |
|-------------------|-----|-------------------------|-------|
| BIOL [*] | 377 | Origins | 3 |
| PHYS [*] | 412 | Physical Chemistry II | 4 |
| PHYS [^] | 210 | Optics @ NWU | 3 |
| | | Fine Arts Elective | 2 |
| | | Social Science Elective | 3 |
| | | Elective | 2 |
| | | | Total |
| | | | 17 |

128 hours are required for graduation. 40 hours must be upper division (300 level or above).

* Other courses may also meet this requirement. See the Union College Bulletin 2010.

[^] Alternate year course.

@ Available at Nebraska Wesleyan University, Lincoln

This sample guide is intended only to show you how a program might be arranged. Course schedules may change and it is possible that your courses will not be taken exactly in the order shown. Your academic advisor will help you design a program around your educational needs and goals.