**BACHELOR OF SCIENCE IN PHYSICS with UTeach Option - 140 hours**

**RECOMMENDED COURSE SEQUENCE - EFFECTIVE Fall 2014**

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|  | **Fall** | **Spring** | **Summer** |
| **Freshman Year** | **Fall – 17 hours**  PHYS 1100 Fun of Physics  PHYS 2303 Contemporary Physics  MATH 2413 or 2417 Calculus 1  CHEM 1311 General Chemistry 1  CHEM 1111 Chemistry Laboratory 1  RHET 1302 Rhetoric  UNIV 1010/NATS 1101 Freshman Seminar  NATS 1141 STEP 1 (Free Elective) | **Spring – 16 hours**  PHYS 2325 Mechanics  PHYS 2125 Mechanics Laboratory  MATH 2414 or 2419 Calculus 2  MATH 2418 Linear Algebra  COMM 1311 Survey of Oral & Tech-Based Communication  NATS 1143 STEP 2 (Free Elective) | **Summer – 3 hours**  HIST 1301 U.S. History to Civil War |
| **Sophomore Year** | **Fall – 15 hours**  PHYS 2326 Electromagnetism and Waves  PHYS 2126 Electromagnetism Laboratory  CHEM 1312 General Chemistry 2  CHEM 1112 Chemistry Lab 2  MATH 2415 or 2451 Calc 3 or Multivariable Calc  NATS 3341 Knowing & Learning (Upper-Level Free  Elective) | **Spring – 14 hours**  PHYS 3411 Theoretical Physics  PHYS 4311 Thermodynamics/Statistical Mechanics  MATH 2420 Ordinary Differential Equations  NATS 3343 Classroom Interactions (Upper-Level Free  Elective) | **Summer – 4 hours**  CHEM 2323/2123 Organic Chemistry I |
| **Junior Year** | **Fall – 16 hours** PHYS 3330 Numerical Methods and  Computational Techniques  PHYS 3416 Electricity and Magnetism  PHYS 4301 Quantum Mechanics 1  Creative Arts Core Course (3SCH) HIST 3327 Perspectives (Upper-Level Free Elective) | **Spring –15 hours** PHYS 3312 Classical Mechanics  PHYS 4302 Quantum Mechanics 2  PHYS 4373 Physical Measurements Laboratory\*\*  Social & Behavioral Science Core Course (3 SCH)  NATS 4390 Research Methods (Upper-Level Free Elective) | **Summer – 3 hours**  HIST 1302 U.S. History from Civil War |
| **Senior Year** | **Fall – 15 hours**  PHYS 4352 Concepts of Modern Physics  PHYS Elective (3 SCH)  Language, Philosophy, & Culture Core Course (3 SCH)  GOVT 2305 American Government  CHEM Elective (3 SCH) | **Spring – 15 hours**  PHYS 3327 Electronics with Laboratory  PHYS 4328 Optics  PHYS Elective (3 SCH)  GOVT 2306 Texas Government  NATS 4341 Project-Based Instruction (Upper-Level  Free Elective) |  |
| **Student Teaching** | **Fall – 7 hours**  NATS 4694/4696 Student Teaching (Upper-Level Elective  Outside Major)  NATS 4141 Student Teaching Seminar (Upper-Level  Free Elective) |  |  |

\*\*Research Experiences for Undergraduates (REUs) during the summer are highly recommended for Physics majors planning to continue their education in graduate school, whether in physics or another discipline. Formal REU programs exist at many universities, national laboratories, and even overseas, and typically offer a stipend typical of a graduate teaching assistantship. Announcements for REU programs usually appear online in December and application deadlines usually range from late January to early March. Requirements vary, but students are often eligible if they have completed their freshman year. If you wish to do an REU during the summer following your junior year, please plan to complete PHYS 4373 Physical Measurements during the Spring semester.