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

**RECOMMENDED COURSE SEQUENCE, OPTION 2 - EFFECTIVE Fall 2014**

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|  | **Fall** | **Spring** | **Summer** |
| **Freshman Year** | **Fall – 17 hours**PHYS 1100 Fun of PhysicsPHYS 2303 Contemporary PhysicsMATH 2413 or 2417 Calculus 1CHEM 1311 General Chemistry 1CHEM 1111 Chemistry Laboratory 1RHET 1302 RhetoricUNIV 1010/NATS 1101 Freshman SeminarNATS 1141 STEP 1 (Free Elective) | **Spring – 16 hours**PHYS 2325 MechanicsPHYS 2125 Mechanics LaboratoryMATH 2414 or 2419 Calculus 2MATH 2418 Linear AlgebraCOMM 1311 Survey of Oral & Tech-Based CommunicationNATS 1143 STEP 2 (Free Elective) | **Summer – 9 hours**GOVT 2305 American GovernmentHIST 1301 U.S. History to Civil WarSocial & Behavioral Science Core Course (3 SCH) |
| **Sophomore Year** | **Fall – 15 hours**PHYS 2326 Electromagnetism and WavesPHYS 2126 Electromagnetism LaboratoryCHEM 1312 General Chemistry 2CHEM 1112 Chemistry Lab 2MATH 2415 or 2451 Calc 3 or Multivariable CalcNATS 3341 Knowing & Learning (Upper-Level Free Elective) | **Spring – 17 hours**PHYS 3411 Theoretical PhysicsPHYS 4311 Thermodynamics/Statistical MechanicsPHYS 3327 Electronics with LaboratoryMATH 2420 Ordinary Differential EquationsNATS 3343 Classroom Interactions (Upper-Level Free Elective) | **Summer – 7 hours**CHEM 2323/2123GOVT 2306 Texas Government  |
| **Junior Year** | **Fall – 16 hours**PHYS 3330 Numerical Methods andComputational TechniquesPHYS 3416 Electricity and MagnetismPHYS 4301 Quantum Mechanics 1PHYS Elective (3 SCH)NATS 4390 Research Methods (Upper-Level Free  Elective) | **Spring –15 hours**PHYS 3312 Classical MechanicsPHYS 4302 Quantum Mechanics 2PHYS 4328 OpticsPHYS 4373 Physical Measurements Laboratory\*\* HIST 3327 Perspectives (Upper-Level Free Elective) | **Summer – 6 hours**Language, Phil, & Culture Core Course (3 SCH)HIST 1302 U.S. History from Civil War |
| **Senior Year** | **Fall – 15 hours**PHYS 4352 Concepts of Modern PhysicsPHYS Elective (3 SCH)CHEM Elective (3 SCH)Creative Arts Core Course (3SCH)NATS 4341 Project-Based Instruction (Upper-Level Free Elective) | **Spring – 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.