

**UTSA Bachelor of Science in Physics
Four-Year Plan
2008-10**

starting with MAT 1093

| FALL | | FIRST YEAR | | SPRING | | |
|--------------|---------------------------|------------|--|--------------|----------------------------|-----------|
| WRC 1013 | Freshman Comp I | 3 | | WRC 1023 | Freshman Comp II | 3 |
| MAT 1093 | Precalculus [^] | 3 | | MAT 1214 | Calculus I | 4 |
| CHE 1103 | General Chemistry I | 3 | | CHE 1113 | General Chemistry II | 3 |
| CS 1073 | Intro to Comp Prog | 3 | | CHE 1132 | General Chemistry II Lab | 2 |
| CORE | Domain IIA: History | 3 | | | | |
| TOTAL | | 15 | | TOTAL | | 12 |
| SUMMER | | | | | | |
| MAT 1223 | Calculus II | 3 | | PHY 1943 | Physics for Scientists I | 3 |
| | | | | PHY 1951 | Physics for Sci I Lab | 1 |
| SECOND YEAR | | | | | | |
| PHY 1963 | Physics for Scientists II | 3 | | PHY 1983 | Physics for Scientists III | 3 |
| PHY 1971 | Physics for Sci II Lab | 1 | | PHY 1991 | Physics for Sci III Lab | 1 |
| MAT 2233 | Linear Algebra | 3 | | MAT 3613 | Differential Equations I | 3 |
| MAT 2213 | Calculus III | 3 | | CORE | Domain IIB: Politics | 3 |
| POL 1013 | Domain IIB | 3 | | CORE | Domain IV: World Society | 3 |
| CORE | Domain IIA: History | 3 | | | | |
| TOTAL | | 16 | | TOTAL | | 13 |
| THIRD YEAR | | | | | | |
| PHY 3103 | Modern Physics | 3 | | PHY 3343** | Advanced Physics Lab I | 3 |
| PHY 3293 | Thermal Physics | 3 | | PHY 4823 | Mathematical Physics II | 3 |
| PHY 3823 | Mathematical Physics I | 3 | | PHY 3423 | Electricity/Magnetism | 3 |
| PHY 3203 | Classical Mechanics I | 3 | | COS | COS Elective | 3 |
| CORE | Domain IIIA: Literature | 3 | | CORE | Domain IID: Economics | 3 |
| TOTAL | | 15 | | TOTAL | | 15 |
| FOURTH YEAR | | | | | | |
| PHY 4263 | Quantum Mechanics I | 3 | | PHY 4423 | Quantum Mechanics II | 3 |
| PHY 3513 | Electrodynamics | 3 | | PHY 3XX3 | UD Physics Elective | 3 |
| PHY 3443 | Modern Optics | 3 | | PHY 3XX3 | UD Physics Elective | 3 |
| CORE | Domain IIC: Soc/Beh Sci | 3 | | PHY 3XX3 | UD Physics Elective | 3 |
| CORE | Domain IIIB: Arts | 3 | | | | |
| TOTAL | | 15 | | TOTAL | | 12 |

Total hrs for BS/PHY is 120.

Total hrs listed here: 120

Notes: Check the student's catalog of graduation for course prerequisites.

Due to the low number of physics majors, the UD level courses in physics are offered according to the students' need to graduate.

Usually offered each academic year: PHY 3293, 3443, 3103, 3203, 3423, 3453 and 4263.

A "C" or better is required for all required and elective physics courses.

** Offered Spring 2008, Spring 2009.

[^]MAT 1093 is a prereq for MAT 1214 and counts as a lower-division CoS elective.

[^]If CHE 1073 is needed as a prereq for CHE 1103, it can count as a CoS lower-division elective.

It is understood that all other provisions of the catalog must be met.