

**UTSA Bachelor of Science in Physics  
Four-Year Plan  
2010-12**

*starting with MAT/CHE 1073*

<b>FIRST YR</b>			<b>FALL</b>			<b>SPRING</b>		
WRC 1013	Freshman Comp I	3	WRC 1023	Freshman Comp II	3			
MAT 1073 <sup>^</sup>	Algebra- Scientists/Engineers	3	MAT 1093 <sup>^</sup>	Precalculus	3			
CHE 1073 <sup>^</sup>	Basic Chemistry	3	CHE 1103*	General Chemistry I	3			
CORE	Domain IIC: Soc/Beh Sci	3	CHE 1122/20	Gen Chem I Lab <sup>^</sup> /lecture	2/0			
CORE	Domain IIA: History	3	CS 1073	Intro to Comp Prog	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>14</b>			
<b>SUMMER</b>								
MAT 1214	Calculus I	4	POL 1013	Domain IIB	3			
CORE	Domain IIIB: Arts	3	CORE	Domain IV: World Society	3			
<b>TOTAL</b>		<b>7</b>	<b>TOTAL</b>		<b>6</b>			
<b>SECOND YR</b>								
PHY 1943/51	Physics for Scientists I/Lab	3/1	PHY 1963/71	Physics for Scientists II/Lab	3/1			
MAT 1224	Calculus II	4	MAT 2214	Calculus III	4			
CHE 1113**	General Chemistry II	3	CORE	Domain IIB: Politics	3			
CHE 1132/30	Gen Chem II Lab/lecture	2/0	CORE	Domain IIA: History	3			
<b>TOTAL</b>		<b>13</b>	<b>TOTAL</b>		<b>14</b>			
<b>SUMMER</b>								
PHY 1983	Physics for Scientists III	3	PHY 1991	Physics for Sci III Lab	1			
<b>THIRD YR</b>								
PHY 3103	Modern Physics	3	PHY 3343***	Advanced Physics Lab I	3			
PHY 3203	Classical Mechanics I	3	PHY 3423	Electricity and Magnetism	3			
PHY 3293	Thermal Physics	3	PHY 4823	Mathematical Physics II	3			
PHY 3823	Mathematical Physics I	3	CORE	Domain IIIA: Literature	3			
MAT 2233	Linear Algebra	3	CORE	Domain IID: Economics	3			
<b>TOTAL</b>		<b>15</b>	<b>TOTAL</b>		<b>15</b>			
<b>FOURTH YR</b>								
PHY 4263	Quantum Mechanics I	3	PHY 4423	Quantum Mechanics II	3			
PHY 3443	Modern Optics	3	PHY 3XX3	UD Physics Elective	3			
PHY 3513	Electrodynamics	3	PHY 3XX3	UD Physics Elective	3			
MAT 3613	Differential Equations I	3	PHY 3XX3	UD Physics Elective	3			
<b>TOTAL</b>		<b>12</b>	<b>TOTAL</b>		<b>12</b>			

Total hrs for BS/PHY is 120.

Hours listed here: 127<sup>^</sup>

Notes: Check 2010-12 catalog for course prerequisites.

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

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

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

<sup>^</sup>CHE 1073, 1122, MAT 1073/1093 taken as prereqs and count as COS electives although only 4 yr required by the degree.

\*or CHE 1143 Gen Chem I Honors

\*\*or CHE 1153 Gen Chem II Honors

\*\*\*Offered Spring only

All other provisions of the catalog must be met.