

<b>CORE CURRICULUM</b>	Minimum Hours Required	<b>INTRODUCTORY SCIENCE</b>	Minimum Hours Required
Core courses must be chosen from approved lists. <a href="http://bit.ly/1d6oP6I">bit.ly/1d6oP6I</a>		M 408C & 408D or 408N & 408S & 408M	<b>8–12</b>
<b>First Year Signature Course</b>	<b>3</b>	CH 301C or 301; 302C or 302; 317	<b>9</b>
<b>English Composition</b>	<b>3</b>	<b>1 of the following organic chemistry sequences:</b>	<b>8</b>
<b>Humanities</b>	<b>3</b>	CH 328M & 128K, 328N & 128L CH 320M, 320N, and 220C	
<b>American &amp; Texas Government</b>	<b>6</b>	<i>Note: Introductory science is substantially different for Focus Area 6 (Chemistry Honors).</i>	
<b>American History</b>	<b>6</b>		
<b>Social &amp; Behavioral Science</b>	<b>3</b>		
<b>Mathematics</b> (Fulfilled by course in major)	<b>0</b>		
<b>Science &amp; Technology-I</b> (Fulfilled by courses in major)	<b>0</b>		
<b>Science &amp; Technology-II</b> (Fulfilled by courses in major)	<b>0</b>		
<b>Visual &amp; Performing Arts</b>	<b>3</b>		
<b>SKILLS &amp; EXPERIENCE FLAGS</b>		<b>ELECTIVES</b>	
Flags attached to courses are displayed in the online Course Schedule.		<b>Enough elective hours to reach 126 total</b>	<b>VARY</b>
<b>Two Writing Flags:</b>	<input type="checkbox"/> <input type="checkbox"/>	(The number of elective hours needed may vary depending on course selections.)	
1. Core Writing Flag (cannot also fulfill another core curriculum requirement)			
2. Additional Writing Flag <i>Note: One of the two writing flags must be upper-division.</i>			
<b>One Quantitative Reasoning Flag</b>	<input type="checkbox"/>	<b>ADDITIONAL GRADUATION REQUIREMENTS</b>	
<b>One Global Cultures Flag</b>	<input type="checkbox"/>	<input type="checkbox"/> Minimum 21 upper-division hours in residence	
<b>One Cultural Diversity in the U.S. Flag</b>	<input type="checkbox"/>	<input type="checkbox"/> Minimum 12 upper-division CH hours in residence	
<b>One Ethics and Leadership Flag</b>	<input type="checkbox"/>	<input type="checkbox"/> Minimum 60 hours in residence overall	
<b>One Independent Inquiry Flag</b>	<input type="checkbox"/>	<input type="checkbox"/> Minimum 36 upper-division hours	
		<input type="checkbox"/> 126 hours total overall	
		<input type="checkbox"/> Minimum grade of C- & minimum 2.0 GPA in all Mathematics & Natural Sciences courses	
		<input type="checkbox"/> Minimum UT-Austin Grade Point Average of 2.5	
		<input type="checkbox"/> Must apply to graduate during final semester	
		<input type="checkbox"/> 2020–22 Catalog expires August 2028	
<b>TEACHING INSTRUCTION COURSEWORK</b>			
HIS 329U or PHL 329U	<b>3</b>		
UTS 101, 110	<b>2</b>		
EDC 365C or UTS 350	<b>3</b>		
EDC 365D or UTS 355	<b>3</b>		
EDC 365E or UTS 360	<b>3</b>		
EDC 651S (Topic 4: Secondary School Teaching Practicum: Science) and UTS 170	<b>7</b>		
<i>Grades of at least C- are required in all courses in this section</i>			
<b>Middle Grade Certification (Optional)</b>			
EDP 350G (Topic 3: Adolescent Development) or PSY 301 and 304	<b>3–6</b>		
EDC 339E	<b>3</b>		
<i>Grades of at least C- are required in all courses in this section</i>			

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*for FOCUS*  
**AREA V:**  
*Certifications*

<b>FOCUS AREA V: TEACHING</b>	Minimum Hours Required	<b>Mathematics, Physical Science, and Engineering Certification</b>	Minimum Hours Required
Complete all coursework in 1 of the following certifications:			
<b>Composite Science Certification</b>			
<b>1 of the following sequences*:</b>	<b>8</b>	<b>1 of the following sequences:</b> PHY 301, 101L, 316, 116L, 315, 115L PHY 303K, 103M, 303L, 103N, 315, 115L	<b>12</b>
PHY 317K, 117M, 317L, 117N PHY 303K, 103M, 303L, 103N PHY 301, 101L, 316, 116L <i>* SCI 365, Physics by Inquiry, and PHY 108, Physics by Inquiry, may substitute for 2nd half of PHY sequence for Composite Science Certification only.</i>		<b>M 315C and 333L</b>	<b>6</b>
<b>BIO 311C, 311D</b>	<b>6</b>	<b>M 375D</b>	<b>3</b>
<b>6 hours in GEO.</b> Courses intended for nonscience majors may not be counted toward this requirement.	<b>6</b>	<b>M 427J or 427K</b>	<b>4</b>
<b>To complete 12 hours in a 2nd science field, 1 of the following:</b>	<b>4–6</b>	<b>Engineering Design &amp; Problem Solving</b> ES 301	<b>3</b>
6 additional hours of BIO 6 additional hours of GEO 4 additional hours of PHY Note: courses must be designed for science majors.		<b>Project in Mechanical Engineering</b> ME 377K <i>Note: Upon approval of the project by the UTeach Program</i>	<b>3</b>
<b>34 hours in CH, including:</b>	<b>17</b>	<b>30 hours in CH, including:</b> General and organic chemistry (in Introductory Science section) Biochemistry: BCH 369 Physical chemistry: CH 353 CH 153K Analytical chemistry: CH 455 CH 368 (Topic 1: Research Methods: UTeach)	<b>14</b>
General and organic chemistry (in Introductory Science section) Biochemistry: BCH 369 or 339F Physical chemistry: CH 353 Analytical chemistry: CH 455 or 456 CH 368 (Topic 1: Research Methods: UTeach) 4 hours of additional CH			
<b>Physical Sciences Certification</b>			
<b>1 of the following sequences:</b>	<b>12</b>		
PHY 301, 101L, 316, 116L, 315, 115L PHY 303K, 103M, 303L, 103N, 315, 115L			
<b>3 hours of upper-division PHY</b>	<b>3</b>		
<b>M 427J or 427K</b>	<b>4</b>		
<b>M 427L</b>	<b>4</b>		
<b>34 hours in CH, including:</b>	<b>21</b>		
General and organic chemistry (in Introductory Science section) Biochemistry: BCH 369 or 339F Physical chemistry: CH 353 CH 153K CH 354C CH 154K Quantum chemistry: CH 354 Analytical chemistry: CH 455 or 456 CH 368 (Topic 1: Research Methods: UTeach)			