

Requirements Min. Hours Required

CORE CURRICULUM

Core courses must be chosen from approved lists. bit.ly/1d6oP6l

First Year Signature Course	3
English Composition	3
Humanities	3
American & Texas Government	6
American History	6
Social & Behavioral Science	3
Mathematics (Fulfilled by course in major)	0
Science & Technology-I (Fulfilled by courses in major)	0
Science & Technology-II (Fulfilled by courses in major)	0
Visual & Performing Arts	3
Writing Intensive Course	3

TEACHING INSTRUCTION COURSEWORK

UTS 121F	1
Research methods course: PHY 341 (Topic 7: Research Methods: UTeach) <i>Note: if research methods is taken outside of PHY, must complete 3 hours of additional upper-division PHY</i>	3
UTS 101, 110	2
EDC 365C or UTS 350	3
EDC 365D or UTS 355	3
EDC 365E or UTS 360	3
EDC 651S (Topic 4: Secondary School Teaching Practicum: Science) and UTS 170 <i>Grades of at least C- are required in all courses in this section</i>	7
Middle Grade Certification (Optional)	3
<i>Note: Middle Grades is only an option for the Composite Science certification. EDC 339F Grades of at least C- are required in all courses in this section</i>	
ELECTIVES Enough elective hours to reach 126 total <i>(The number of elective hours needed may vary depending on course selections.)</i>	VARY

Requirements Min. Hours Required

OPTION 5: TEACHING

Designed to fulfill the course requirements for certification as a middle grades or secondary school science teacher in Texas. Students choose 1 of 4 certification options: composite science certification, physical sciences certification, physics/mathematics certification, or mathematics, physical science, and engineering certification. Completion of the course requirements does not guarantee teaching certification. Contact the UTeach-Natural Sciences academic adviser for more information.

INTRODUCTORY MATHEMATICS & SCIENCE

M 408C & 408D or 408N, 408S, & 408M	8-12
M 427J or 427K	4
M 427L	4
PHY 301 & 101L*, 316 & 116L*, and 315 & 115L	12
<i>* PHY 303K & 105M and 303L & 105N, substitute for PHY 301 & 101L and 316 & 116L. However, they are not preferred preparation for PHY 315 & 115L. Note: Introductory science is substantially different for Option 6</i>	
Upper-division physics common to all certifications:	6
PHY 355 Modern Physics & Thermodynamics PHY 353L Modern Physics Laboratory	
3 of the following (common to all certifications):	9
PHY 329 Introduction to Computational Physics PHY 333 Modern Optics PHY 336K Classical Dynamics PHY 338K Electronic Techniques PHY 352K Classical Electrodynamics I PHY 373 Quantum Physics I: Foundations SCI 365 Physics by Inquiry	

ADDITIONAL GRADUATION REQUIREMENTS

- ☐ Minimum 21 upper-division hours in residence, including 12 in Physics
- ☐ Minimum 60 hours in residence overall
- ☐ Minimum 36 upper-division hours
- ☐ 126 hours total overall
- ☐ Minimum grade of C- & minimum 2.0 GPA in all Mathematics & Natural Sciences courses
- ☐ Minimum UT-Austin Grade Point Average of 2.0
- ☐ Must apply to graduate during final semester
- ☐ 2026-28 Catalog expires August 2034

See page 2 for Option 5
Teaching Certifications

Requirements	Min. Hours Required
OPTION 5: TEACHING	
Complete all coursework in 1 of the following certifications:	
Composite Science Certification:	
BIO 311C	3
CH 301 or 301C	3
CH 302 or 302C	3
3 hours of coursework in GEO	3
Choose one of the following courses: Geological Sciences 401, 303, 302C, 302E, 302G, 302M, 302N, 303E, 302J, 302T	
Physical Sciences Certification	
3 additional hours of upper-division PHY	3
CH 301 or 301C	3
CH 302 or 302C	3
6 additional hours of Chemistry chosen from: Chemistry 301 or 301C, 302 or 302C, 204 or 317, 353, 153K, 154K, 354L, and 455 or 456	6
For physics/mathematics certification:	
M 315C and 333L	6
For mathematics, physical science, and engineering certification:	
CH 301 or 301C	3
CH 302 or 302C	3
General CH lab: CH 204 or 104M and 104N	2
Secondary school math: M 315C and 333L	6
Discrete math: M 325K	3
Probability: M 362K	3
Applied statistics: M 358K	3
Engineering coursework: ES 301 Engineering Design and Problem Solving ME 377K Projects in Mechanical Engineering*	6

*upon approval by the UTeach Program