## Bachelor of Science in Physics Minor in Mathematics 7-12 Mathematics Teacher Certification

2024-2025	cata	loa

Name:	ID:	
Expected graduation:	Date:	

UTeach program coordinator: Dr. Erin Philp, ephilp@uta.edu

## **GENERAL EDUCATION (31 hours)**

UTA requirement Earned			Need
UNIV-SC 113	31/1101 Student Success		1
Communicat	tion		
ENGL 1301	Rhetoric & Composition I		3
ENGL 1302	Rhetoric & Composition II		3
US History (d	choose two)		
HIST 1301	History of the United States to 1865		
HIST 1302	History of the United States from 1865		6
HIST 1331	Technology & Science in American Society I		0
HIST 1332	Technology & Science in American Society II		
Political Scient	ence		
POLS 2311	Government of the United States		3
POLS 2312	State & Local Government		3
Language, P	hilosophy, & Culture (see approved list)		
			3
Social & Beh	navioral Sciences (see approved list)		
			3
Creative Arts	s (see approved list)		
			3
Computer programming (choose one)			
CSE 1310	Intro to Computers & Programming		
DATA 3401	Python for Data Science I		3
PHYS 2321	Computational Physics		

## **CHEMISTRY & MATHEMATICS (34 hours)**

Chemistry	Earned	Need
CHEM 1441 General Chemistry I		4
CHEM 1442 General Chemistry II		4
Mathematics		
MATH 1426 Calculus I		4
MATH 2425 Calculus II		4
MATH 2326 Calculus III		3
MATH 3319 Differential Equations & Linear Algebra		3
MATH 2330 Functions & Modeling - UTeach (fall only)		3
MATH 3301 Foundations of Geometry		3
MATH 3307 Elementary Number Theory		3
MATH 3316 Statistical Inference		3

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		Earned	Need
PHYS 1443	General Technical Physics I		4
PHYS 1444	General Technical Physics II		4
PHYS 2311	Mathematical Methods of Physics		3
PHYS 3313	Intro to Modern Physics		3
PHYS 3183	Intro to Modern Physics Lab		1
PHYS 4315	Thermodynamics & Statistical Mechanics (fall only)		3
PHYS 4326	Intro to Quantum Mechanics (fall only)		3
PHYS 3321	Intermediate Electricity & Magnetism (fall only)		3
PHYS 4319	Advanced Mechanics (spring only)		3
PHYS 4117	Individual Learning by Seminar		1
Physics ele	ctives (excluding 2321; may include up to 3 hours of	research	)

PHYS 33XX 3
PHYS 33XX 3

## **UTEACH ARLINGTON (26 hours)**

NOTES

Juniors/seniors may take SCIE 1334 in lieu of 1201/1202 Earned		Need	
SCIE 1201	Step 1: Inquiry Approaches to Teaching		2
SCIE 1202	Step 2: Inquiry-based Lesson Design		2
SCIE 4331	Knowing & Learning		3
SCIE 4332	Classroom Interactions		3
PHIL 2314	Perspectives on Science & Math		3
PHYS 4343	Research Methods		3
SCIE 4333	Multiple Teaching Practices		3
SCIE 4607	Capstone Teaching Experience		6
SCIE 4107	Capstone Teaching Experience Seminar		1

	Earned	Need
TOTAL DEGREE HOURS (125)	0	125

ACADEMIC STANDING	
	UTA GPA (2.75 min)
	Physics GPA (2.25 min)
	Mathematics GPA (2.25 min)