

Mathematics Education, BA/BS

Program Description

The Utah Tech University Mathematics Department helps students to achieve their academic, career, and life goals, including those related to basic computational skills, mathematical processes, and knowledge that develops real-life applications, modeling, and problem solving. The Department's comprehensive and integrated offerings help students master mathematical competencies for future career and educational endeavors. As part of an open-admissions institution, the Department offers a broad spectrum of Mathematics classes that are useful for skill levels from developmental to selected four-year degree requirements. The Mathematics faculty is dedicated to providing opportunities that promote student success. Utah Tech University also offers the **Math Endorsement for Secondary Education**. The following are help links for endorsement students:

Endorsement Levels (<https://math.utahtech.edu/wp-content/uploads/sites/10/2015/06/ENDORSEMENT-LEVELS.pdf>)

Endorsement Checklist (<https://math.utahtech.edu/wp-content/uploads/sites/10/2015/06/NewEndorsementChecklist.pdf>)

Professional Licensure/Certification (PLC) Requirements

The curriculum for programs at Utah Tech University leading to professional licensure are designed to prepare students for Utah licensure and certification requirements. Admission into programs for professions requiring licensure and certification does not guarantee that students will obtain a license or certificate. Licensure and certification requirements are set by agencies that are not controlled by or affiliated with the University, and licensure and certification requirements can change at any time.

Licensure boards in each state establish requirements for licensure and certification for their respective state. States vary by which professions are required to be licensed and how licensure functions, and such requirements may change at any time. The terms related to licensure and certification, among others, also vary by state as well.

Students and prospective students are strongly encouraged to contact the state licensure entity in the state where they intend to work to review all licensure and certification requirements imposed by the student's state(s) of choice. The University cannot provide verification of a student's ability to meet licensure or certification requirements unrelated to its educational programming. Some states require individuals to complete additional requirements that are unrelated to educational prerequisites. For more information, visit the State Authorization and Professional Licensure (<https://academics.utahtech.edu/state-authorization/>) web page and select the program, or speak to the director of the program.

Utah Tech University shall not be held liable if a student is unable to qualify for licensure or certification in any jurisdiction.

This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(C).

Admission Requirements for Secondary Education Program

To be admitted to the Secondary Education Program and enroll in professional courses:

- USBE R277-504-3 A(3) "requires candidates to maintain a cumulative university GPA of 3.0, and receive a C or better in all education related courses and major required content courses"

and students must pass the appropriate PRAXIS II content area subject test(s). In addition, one of the following must be completed:

- Students with BA/BS degrees in progress must have completed at least 95% of major coursework and have approval of major academic content area department advisor
- Students with completed BA/BS or higher degrees must have their transcripts reviewed by content area department advisor

Code	Title	Hours
Secondary Education Program Professional Requirements		
Semester I		
MATH 4500	Methods Teach Secondary Math	3
SCED 3720	Reading Writing Content Areas (ALPP)	2
SCED 4100	Curriculum and Instruction	3
SCED 4200	Secondary Assessment	2
SCED 4600	Classroom Management (ALPP)	3
SCED 4300	Practicum Seminar	3

Semester II

SCED 4900	Secondary Student Teaching	10
SCED 4989	Student Teaching Capstone ¹	3

1. Course Fee Required. See course fee tab for details.

Program Curriculum**121 credits****Utah Tech General Education Requirements**

All Utah Tech General Education requirements must be fulfilled. A previously earned degree may fulfill those requirements, but courses must be equivalent to Utah Tech's minimum General Education standards in American Institutions, English, and Mathematics.

General Education Core Requirements (<https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext>)

Code	Title	Hours
English		3-7
Mathematics		3-5
American Institutions		3-6
Life Sciences		3-10
Physical Sciences		3-5
Fine Arts		3
Literature/Humanities		3
Social & Behavioral Sciences		3

Code	Title	Hours
	Bachelor of Arts: Foreign Language Requirement	3-16

Complete one of the following:

- Complete 16 credits in a single foreign language, through earned credit (grade C or higher), credit by examination, or vertical credit from the courses listed on the GE Foreign Language Requirement page ¹
- Complete a 2020 or higher foreign language course (grade C or higher)
- Complete a 3060 foreign language course listed below (grade C or higher)
- Receive 16 transfer credits for GEFL 1000 (8) and GEFL 2000 (8) in a single foreign language (grade C or higher)

OR**Complete a 1010 course listed below in a second foreign language (grade C or higher) AND one of the following:**

1. In a language not taught at Utah Tech, receive 12 FLATS exam credits for FLAT 1000 (8) and FLAT 2000 (4)

or

2. In a language not taught at Utah Tech, receive 12 transfer credits articulated as GEFL 1000 (8) and GEFL 2000 (4) (all grade C or higher)

OR**Available only to students who are nonnative English speakers, complete one of the following:**

- Complete 16 credits of ESL courses listed below (grade B or higher)
- Complete ESL 2750 or ESL 2760 (grade B or higher).
- Submit one of the following test scores required for unconditional Utah Tech admission: TOEFL (61 iBT, 173 CBT, or 500 PBT); or Michigan (70); or USU-IELE equivalent score. Other tests may be accepted for admission to Utah Tech but will not fulfill this requirement. Official scores must be submitted to the Registrar's Office.

Total Hours	3-16
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¹ General Education Foreign Language Classes may be found on the General Education page. (<https://catalog.utahtech.edu/programs/generaleducation/#gerequirementstext>)

Secondary Education Pre-Program Requirements

Code	Title	Hours
HIST 1700 or POLS 1100	American History (AI) American Government (AI)	3
FSDH 1500 or PSY 1010 or PSY 1100	Human Development Lifespan (SS, GC) General Psychology (SS, GC) Human Development Through Lifespan (SS, GC)	3
EDUC 1010	Foundations/Intro to Education	3
EDUC 2010	Intro to Exceptional Learners	3
EDUC 2110	Educational Psychology	3
EDUC 2400	Foundations Multicultural/ESL (SS, GC, ALCI)	3
EDUC 2500	Instructional Technology in K-12 Classrooms (Must be taken within the last 5 years)	3
EDUC 2700	Graduation Planning, Program Application & Career Prep	0

Mathematics Core Requirements

Code	Title	Hours
MATH 1210	Calculus I (MA) ¹	4
MATH 1220	Calculus II (MA) ¹	4
MATH 2200	Discrete Mathematics ¹	3
MATH 2210	Multivariable Calculus (MA) ¹	4
MATH 2270	Linear Algebra ¹	3
MATH 2280	Ordinary Differential Equations ¹	3
MATH 3000	History of Mathematics	3
MATH 3010	Algebra for Secondary Mathematics Teaching	3
MATH 3020	Geometry and Statistics for Secondary Mathematics Teaching	3
MATH 3100	Euclidean / Non-Euclidean Geom	3
MATH 3120	Transition to Advanced Mathematics	3
MATH 3200	Introduction to Analysis I	3
MATH 3400	Probability & Statistics	3
MATH 4000	Abstract Algebra I	3

Mathematics Program Requirements

Code	Title	Hours
CS 1400	Fundamentals of Programming ¹	3
PHYS 2210 & PHYS 2215	Physics/Scientists Engineers I (PS) and Physics/Scientists Engineers I Lab ¹	5

1. COURSE FEE REQUIRED. See course fee tab for details.

Graduation Requirements

1. Complete a minimum of 121 college-level credits (1000 and above).
2. Complete at least 40 upper-division credits (3000 and above).
3. Complete at least 30 upper-division credits at Utah Tech for institutional residency.
4. Cumulative university GPA 3.0 or higher.
5. Grade C or higher required (not C-) in each Mathematics Core Requirement and Program requirement course.
6. USBE R277-504-3 A(3) "requires candidates to maintain a cumulative university GPA of 3.0, and receive a C or better in all education related courses and major required content courses"
7. 3.0 GPA or higher in Education and Secondary Education program prerequisite and professional courses.