

Medical Math Endorsement

Specifications, Competencies & Requirements

PURPOSE

This endorsement is meant for certified teachers interested in teaching **Medical Math** courses. It is attached to a current Utah Educator License with a concentration in **Secondary** Education.

Upon attachment of this endorsement to a Utah educator license, educators will be approved to teach the following USBE courses:

Medical Math

ENDORSEMENT REQUIREMENTS

Prerequisite

Demonstrate an understanding of Career and Technical Education (CTE) basics.

CTE Knowledge

Associate Level Requirements

Applicants must complete **TWO** of the following competency requirements. The associate-level endorsement is valid for up to 3 school years before it expires. Associate-level endorsements are non-renewable.

College Algebra

Statistics

Rational Numbers (**Health Science Teachers Only**)

Health Science Basics (**Math Teachers Only**)

Medical Math Teaching Methods

Professional Level Requirements

The applicant must meet **ALL** the competency areas listed above.

COMPETENCY DETAILS & DESCRIPTIONS

Prerequisite

1. CTE Knowledge

Demonstrate an understanding of CTE basics:

- Explain how CTE links learning to specific Utah industries and what its main goals are.
- Know the licenses and endorsements needed to teach specific CTE courses.
- Describe how CTE is organized into clusters and pathways at the state, district (LEA), and school levels, and how this helps students succeed after graduation.
- Locate and use the state's strands and standards in lesson plans.
- Explore CTE student organizations (CTSOs) and professional groups and explain how they support students and teachers.

- Explain how advisory boards, with industry members, make sure programs meet job market needs and maintain safe learning environments.
- Understand the basics of securing funding, planning for the program's future, and participating in the state Program of Quality Review (PQR) to ensure program excellence.

Select **one** of the following options:

- **USBE Course:** [CTE Orientation](#)
- **Complete THREE years of full-time CTE Teaching in Utah**
- **Currently hold a professional-level CTE endorsement**

Endorsement Competencies

2. College Algebra

Knowledge of linear, quadratic, polynomial, rational, exponential, and logarithmic functions.
Knowledge of solving equations and inequalities.

Select **one** of the following options:

- **College Course:** Math 1050 or higher
- **Endorsement:** Have an active Secondary Math Endorsement
- **GRE Exam:** Passed [GRE Mathematics Subject Exam](#): Passing score 515

3. Statistics

Knowledge of methods to collect, organize, interpret, and summarize numerical data.

Select **one** of the following options:

- **College Course:** Math 1040 or higher level of statistics
- **Endorsement:** Have an active Secondary Math Endorsement
- **GRE Exam:** Passed [GRE Mathematics Subject Exam](#): Passing score 515

4. Rational Numbers (Health Science Teachers Only)

Basic knowledge of the use of rational numbers, equations, and statistics.

Select **one** of the following options:

- **Medical Math Canvas Course:** Rational Numbers for Health Science Teachers (Required for Health Science Teachers only)
- **Endorsement:** Have an active Secondary Math Endorsement
- **GRE Exam:** Passed [GRE Mathematics Subject Exam](#): Passing score 515

5. Health Science Basics (Math Teachers Only)

Basic knowledge of careers in healthcare, human body systems, and common medical equipment.

Select **one** of the following options:

- **Medical Math Canvas Course:** Health Science for Math Teachers (required for Math Teachers only)
- **Endorsement:** Has a Secondary Health Science-related endorsement (Health Science, Intro; Medical Anatomy & Physiology; Exercise Science/Sports Medicine; Biotechnology; Medical Forensics; EMR; EMT; Nurse Assistant; Medical Assistant; Dental Assistant; Pharmacy Technician; Surgical Technology)

6. Medical Math Teaching Methods

Demonstrates the strategies to teach and the applications of Medical Math.

Select ***one*** of the following options:

- **Medical Math Canvas Course:** Teaching Medical Math - Strategies
- Has taught the Medical Math course for at least three consecutive semesters or years.