

PROGRAM OF STUDY

Educational Studies: STEM - Math Concentration

Certificate of Achievement



To provide an additional pathway to an education-related career, this certificate is designed for students interested in an education/ teaching-related career who prefer online classes and/or cannot always attend traditional face-to-face classes due to employment, marital status, family responsibilities, distance, and expenses incurred with traditional education schedules. All certificate classes are online (asynchronous, not zoom based).

The certificate serves as a career ladder approach to a credential or permit or as a stand-alone entity to document that a student has taken coursework related to subject matter proficiency (Educational Studies: STEM: Math Concentration) and has acquired skills for successful employment as a teacher's aide, after-school program assistant, tutoring or other paraprofessional level classroom career.

This certificate is especially appropriate for students following various pathways to classroom teaching or education-related career:

- The paraprofessional teacher aide seeking coursework related to the education of children focusing on math; candidates for paraprofessional employment seeking course work and experience related to the education of children.
- The aspiring paraprofessional or currently employed paraprofessional teacher- aide seeking a career ladder approach to a teaching credential and/or child development permit.
- The teacher- aide paraprofessional who has decided against pursuing an AA and/or credential or permit but would like to acquire knowledge and skills/ professional development relevant to serving as a teacher assistant or support staff in a classroom or school or related environment, concentrating on providing support in mathematics.
- Teacher preparation for students on a transfer pathway for a BA and Credential who also desire certificate recognition in Educational Studies STEM: with a Math Concentration.
- Independent tutors seeking a certificate to augment their training and expertise.

It is expected that upon completion of the certificate students will be able to:

- 1) Work effectively with students, teachers, parents, colleagues, and administrators in a school and classroom setting.
- 2) Apply knowledge, skills, and experience to make an informed choice to be employed or to continue study in the field of education.
- 3) Apply the certificate towards entry into a teaching credential or child development permit program, and/or the certificate may serve to document the acquisition of knowledge and skills relevant for employment as a teacher assistant or support staff in a classroom, school, or related environment.

Possible Employment / Illustrative Examples

Teacher assistant transitional kindergarten (TK) and/ or K-8; teacher assistant 8-12 remedial math; position requiring practical skills and knowledge to work with children in an after-school care, tutoring, or mentoring program/ (focusing on math providing support in math); paraprofessional providing tutoring/homework assistance and/or assisting in academic enrichment programs; test preparation assistant or content assistant, test prep: CSET, CBEST, SAT; nanny; Lego theme park worker for mathematics oriented exhibits.

Courses do not have to be taken in any fixed order or semester.

Required Courses: 14 units

EDUC C101 - Tutor Training (1 units)

MATH C 104 - Math for Elementary School Teachers (3 units)

MATH C106 - Geometry for Elementary School Teachers (3 units)

MATH C160 - Introduction to Statistics (4 units)

EDUC C180 - School, Family, Community Partnerships (3 units)

Electives: minimum 2 units

EDUC C211 - Media Literacy Toolkit for Teachers (3 units)

EDUC 210 - Introduction to Special Education (3 units)

EDUC C103 - Introduction to Computers in Education: Technology Proficiencies for Teachers I (2 units)

Total Required Units: 16