

PROGRAM OF STUDY



Effective Term: Fall 2024
TOP Code: 0860.00*
CIP Code: 13.1599

Educational Studies: STEM: Instructional Technology Support Concentration Certificate of Achievement

In order 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.

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

- The paraprofessional or aspiring paraprofessional teacher aide or homeschooling parent seeking professional development focused on supporting teaching and learning with technology.
- The aspiring paraprofessional or currently employed paraprofessional teacher aide seeking a career ladder approach to a teaching credential and/or child development permit seeking a certificate recognizing expertise in providing technology-based instructional support.
- The teacher aide paraprofessional who has decided against pursuing an AA and/or credential but would like to acquire knowledge and skills/ professional development relevant to serving as a teacher assistant or support staff in a classroom, school, or related environment, specializing in expertise in providing technology-based assistance.
- Teacher preparation for students on a transfer pathway for a BA and Credential who also desire certificate recognition in Educational Studies with a concentration in providing technology support to teachers, students, parents.

Possible employment/illustrative examples: teacher assistant/ classroom aide specializing in providing technology assistance to students, parents, teachers, in an academic or related setting. Preschool, TK, elementary, middle, secondary; possible employment as a technology assistant in special education classrooms with the addition of intro to special education course; elementary learning support aide, middle school paraeducator, assistant in after school homework center, all grades, where expertise in technology would be an asset.

Program Outcomes:

OUTCOME 1:

Work effectively with students, teachers, parents, colleagues, and administrators in a school and classroom setting.

ASSESSMENT 1:

Through analysis and evaluation using multiple measures of assessment: survey analysis, fieldwork self-evaluation, reflections, evaluations from cooperating teachers hosting fieldwork students, to include assigned observation and/ or portfolio activities and responses to applicable assignments; feedback, GPA. Post-program completion survey and attainment of associated course SLOs.

OUTCOME 2:

Apply knowledge, skills, and experience to make an informed choice to be employed or to continue study in the field of education.

ASSESSMENT 2:

Through analysis and evaluation using multiple measures of assessment: focus groups/individual mentoring, survey analysis, fieldwork, self-evaluation, reflections, evaluations from cooperating teachers hosting fieldwork students, to include assigned observation and/ or portfolio activities and/or field experience and responses to applicable assignments, GPA. Post-program completion survey and attainment of associated course SLOs.

OUTCOME 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.

ASSESSMENT 3:

Through analysis and evaluation using multiple measures of assessment: survey analysis, fieldwork, self-evaluation, reflections,

evaluations from cooperating teachers hosting fieldwork, students, to include assigned observation and/or portfolio activities and/or field experience and responses to applicable assignments, GPA. Post-program completion survey and attainment of associated course SLOs.

Career Opportunities in Education

According to a Center of Teaching and Learning report in February 2017, in the past year, overall teacher workforce trends in California have worsened, with especially severe consequences in STEM areas: (Math, Science, Technology).

The Certificate in Educational Studies Certificate: STEM, pathway may lead to high-skill, high-growth, high-wage paraprofessional and teaching occupations. Employment Development Department (EDD) LMI data show regional growth in paraprofessional and teacher openings at 10%-11%, with 392 paraprofessional openings, and 524 teacher openings, on average each year. Education-related jobs are expected to increase by 6% through 2022 resulting in 4,349 annual openings according to the Orange County Center of Excellence.

The wage range for paraprofessionals in Orange County is \$13-\$23/hr, based on training and certification. This is a significant increase over the minimum wage that most of our students earn in retail and foodservice jobs, and contributes to students' persistence in the pathway as their earnings and their work experience support their goal to enter the teaching profession.

Possible employment/illustrative examples: teacher assistant/ classroom aide specializing in providing technology assistance to students, parents, teachers, in an academic or related setting. Preschool, TK, elementary, middle, secondary; possible employment as a technology assistant in special education classrooms with the addition of intro to special education course; elementary learning support aide, middle school paraeducator, assistant in after school homework center, all grades, where expertise in technology would be an asset.

Required Courses (13 Units)

Students will complete all of the following:

| | Units |
|---|-------------|
| EDUC C101 Tutor Training | 1.0 |
| EDUC C103 Introduction to Computers In Education: Technology Proficiencies for Teachers 1 | 2.0 |
| EDUC C104 Introduction to Teaching and Learning in Diverse Contemporary Classrooms | 1.0 |
| EDUC C180 Family, School, and Community Partnerships | 3.0 |
| EDUC C211 Media Literacy Toolkit for Teachers | 3.0 |
| CIS C100 Introduction to Information Systems | 3.0 |
| Subtotal | 13.0 |

Elective Courses (3 Units)

Complete 3 units from the following:

| | |
|---|------------|
| CIS C105 Introduction to Office Technology | 3.0 |
| CYBR C101 Introduction to Cybersecurity | 3.0 |
| DMD C100 Introduction to Digital Art and Media | 3.0 |
| DMD C116 Visual Design (Photoshop) | 3.0 |
| DMD C131 Digital Photography using Photoshop | 3.0 |
| ICS C120 Introduction to Programming | 3.0 |
| IT C104 IT Fundamentals | 4.0 |
| LIBR C110 Library Research and Information Competency | 2.0 |
| Subtotal | 3.0 |

Total Units

16

PID 2476