

Technology-Intensive Concurrent Enrollment (TICE)

Summary

Overview

The Technology-Intensive Concurrent Enrollment (TICE) project was initiated in 2011 with one-time funding from the Utah State Legislature in the 2011, 2012, and 2013 legislative sessions totaling \$3,745,700. The primary objective of the project was to develop high-quality, technology-based Concurrent Enrollment courses that would expand access to concurrent enrollment for public school districts and students across Utah, with a goal to use open educational resources for courses that meet General Education requirements for associate and bachelor degrees.

Course Development (\$2,455,000, 66%)

TICE courses were largely developed by teams of faculty and instructional designers from higher and secondary education.

- “Flipped”: Students gain initial exposure to new material outside of class, with other activities, assignments, and tests facilitated in class
- “Hybrid”: Blending face-to-face and online learning

Fifteen courses (mostly General Education) were developed over five years in the following areas:

- American Institutions: U.S. National Government
- Arts: Introduction to Art and Introduction to Music
- Career-Technical Education: Introduction to Engineering & Technical Design and Introduction to Residential Architecture
- English: Introduction to Writing and Intermediate Writing
- Humanities: Essentials of Humanities
- Life Sciences: Introduction to Biology & Lab
- Mathematics: Intermediate Algebra, Quantitative Reasoning, College Algebra, and Trigonometry
- Physical Sciences: Introduction to Chemistry & Lab
- Social Sciences: Introduction to Psychology

Professional Development (\$257,000, 7%)

USHE faculty have conducted annual trainings for new TICE high school instructors since 2013. To date, nearly 200 high school instructors from more than two dozen school districts have participated in TICE professional development.

Other Expenditures

- Consultants, Program Support, Printing, Travel, Video, etc.: ~\$700,000 (18%)
- Remaining: ~\$331,000 (9%)

Remaining funds continue to be used for maintenance of open educational resources and professional development.

Impact of TICE Courses

- 10+ high schools
 - Introduction to Biology & Lab
 - Introduction to Chemistry & Lab
 - Introduction to Engineering & Technical Design
 - Introduction to Residential Architecture
 - Introduction to Writing
 - Intermediate Writing
- 5-9 high schools
 - Introduction to Art
 - Introduction to Music
 - Quantitative Reasoning (Math)
- Other impacts
 - TICE Art material utilized in college-student sections of ART 1010 at Dixie State University
 - TICE Engineering & Technical Design and Residential Architecture material adopted by Utah State Board of Education and Utah System of Technical Colleges for CTE courses in computer-aided design
 - TICE English material utilized in college-student sections of ENGL 1010 and ENGL 2010 at Weber State University
 - TICE Mathematics material utilized by Salt Lake Community College in further development of open educational resources in mathematics
 - TICE Music material to be utilized in all college-student sections of MUSC 1010 at Snow College effective fall 2018