Teaching and Learning with Technology

“We need technology in every classroom and in every student and teacher’s hand, because it is the pen and paper of our time, and it is the lens through which we experience much of our world.”
— David Warlick, Education, Technology Educator

In College: Technology is a 21st Century "Must Have"

Device Ownership

- 89% of students own a laptop, notebook, or chromebook
- 45% own a tablet
- 11% own a hybrid or 2 in 1

Typical Types of Use

- 70% of students use their laptop for coursework and research.
- 47% use laptops regularly to take notes in class.
- 85% of students reported that technology saves them time when studying.
- 77% of students report being required to use, at least one social media site for a class. The most popular accounts are YouTube (57%), Facebook (42%), and Twitter (25%).
- <50% of college students said they preferred reading digital textbooks over print textbooks.

Learning Online

- 77% of students have taken at least one online course
- 42% of students reported better grades in online courses vs. in-person courses

In Life: Technology Prepares Students for Their Next Job

Jobs of the Future

- 30% of students are looking for a technology related career.
- STEM occupations are growing by 17% by 2020, compared to 9.8% growth in non-STEM occupations.

The Innovation Economy

- In 2013 an estimated 165,100 Americans worked in computer network support specialists
- 141,270 as computer network architects, and
- 78,020 as information security analysts

Salary

- Average Salaries (25 to 32 year olds)
  - High school graduate: $28,000
  - Two-year degree: $30,000
  - Bachelors Degree: $45,500
  - Electrical Engineer: $61,900
  - Network Security Analyst: $64,900
  - Chemical Engineer: $65,900
  - Technology Analyst: $67,500

- 60 mins
- 30 mins

Standards

“Today, our schools must prepare all students for college and careers — and do far more to personalize instruction and employ the smart use of technology.”
— Arne Duncan, US Secretary of Education