

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY**  
**EDU 280 – TECHNOLOGY STANDARDS FOR TEACHERS (3 CR.)**

**Course Description**

Provides K-12 classroom teachers with the knowledge and skills needed to fulfill the Commonwealth of Virginia's Technology Standards for Instructional Personnel. Certification is dependent on the supervisor's or employer's approval. Lecture 3 hours per week.

**General Course Purpose**

The purpose of this course is to enhance instruction and prepare teachers to create engaging learning environments using technology and media. Students apply their technology skills to create lesson plans, develop classroom instructional materials and reflect upon best practices in teaching. Students create and maintain a digital portfolio to showcase mastery of the ISTE Teacher Standards.

**Course Prerequisites/Corequisites**

Prerequisite: EDU 200 and ITE 115 or instruction approval. Students must have basic knowledge about the operation of a computer, file management, and software installation. Students must be comfortable using the Internet in an effective and efficient manner, including installation and management of browser plug-ins. Additionally, students must be proficient in launching applications; managing program windows; finding, copying, moving, saving, deleting and uploading files; and using the Microsoft Office applications including MS Word, MS PowerPoint, and MS Excel.

**Course Objectives**

Upon successful completion of this course, students will be able to

- a) Demonstrate proficiency in the Commonwealth of Virginia's Technology Standards for Instructional Personnel and the In ISTE Standards for Students and Teachers.
- b) Analyze implications of 21st century classrooms
- c) Develop an e-portfolio using Google sites
- d) Analyze at least 5 Web 2.0 technologies and their ability to engage students
- e) Design virtual field trip, flipped classroom and collaborative learning lesson plans that incorporate technology applications and effectively engage students
- f) Reflect upon the importance of careful planning and preparation when incorporating technology into instruction
- g) Create a video for classroom instruction
- h) Explain why instructors should be aware of copyright laws, Fair Use guidelines, and the TEACH Act when incorporating multimedia resources in the teaching and learning environment.
- i) Explore best practices for virtual learning

**Major Course Content Topics**

- a) 21st Century Learners and 21st Century Learning Environments
- b) Commonwealth of Virginia's Technology Standards for Instructional Personnel
- c) ISTE Standards for Teachers and Students
- d) Emerging Technologies in Education
- e) Selecting Technology and Media to Enhance Learning
- f) Copyright Laws, Fair Use guidelines, and the TEACH Act
- g) Distance Learning
- h) Safety & Security Issues, Ethics and Safeguards