COMPUTER SCIENCE TECHNOLOGY (CSTE)

CSTE 5319. Critical Anlysis-Instruc Sftwr. 3 Hours.
This course examines the instructional and educational value of commercially available software for the pre-k through 12th grade. The course builds upon a foundation of instructional theory to identify appropriate characteristics of instructional software and explores the effectiveness of instructional software in the classroom. This course may not be counted toward the M.S. in Computer and Information Science, Information Assurance and Security or Digital Forensics.

CSTE 5336. Educational Multimedia. 3 Hours.
This course explores the uses of multimedia in the classroom and extends the teachers skill base in the development of appropriate multimedia examples to support and enhance the middle school and high school curricula. Throughout the course students will gain experience in still and motion digital editing, audio and animation production. This course may not be counted toward the M.S. in Computer and Information Science, Information Assurance and Security or Digital Forensics.
Prerequisite: CSTE 5319 and Graduate standing.

CSTE 5337. Desgn Instrctnl Mat For Web. 3 Hours.
This course examines the development of web sites for instructional purposes. The course looks at the systematic design of instruction, a process that examines the development of appropriate course goals, the identification of measurable objectives that meet those goals and intelligent approaches to assessing student performance. This design approach is then applied to the development of web-based materials, providing opportunities for skills acquisition in a variety of multimedia applications and their incorporation into a web site. The course culminates in the development of a geometry web site for use in schools. This course may not be counted toward the M.S. in Computer and Information Science, Information Assurance and Security or Digital Forensics.
Prerequisite: CSTE 5336.

CSTE 5338. Dev Of Tech Infrastructre-Schl. 3 Hours.
Prerequisite: CSTE 5337.

CSTE 7315. Educational Network Design. 3 Hours.
This course examines the technical, environmental, and policy issues involved in the development of educational technology infrastructures, focusing on network design and evaluation.

CSTE 7325. Technology Sustainability. 3 Hours.
This course will examine the potential and the challenges associated with initiating and maintaining green and cost-efficient technology infrastructures based on environmental awareness initiatives.

CSTE 7335. Mgmt Application Analysis. 3 Hours.
This course provides a systematic and rational approach to the analysis, evaluation, and implementation of course management systems from the standpoints of pedagogical success, user friendliness, and cost effectiveness.

CSTE 7336. Instructional Design Assmt. 3 Hours.
This course applies instructional design theory to the development, analysis, evaluation, and assessment of various digital instructional designs.

CSTE 7380. Inst Tech Research Methods. 3 Hours.
This course focuses on the research questions, approaches, and measures typically employed by instructional technology researchers.