

OHIO BOARD OF REGENTS

- Agenda Item 6.3 (a) Cincinnati State Technical and Community College, Associate of Applied Science degree in Web Design Technology
- (b) Cincinnati State Technical and Community College, Associate of Applied Science degree in Computer Graphics Technology
- (c) Cincinnati State Technical and Community College, Associate of Applied Science degree in Audio/Video Production Technology
- (d) Cincinnati State Technical and Community College, Associate of Applied Science degree in Database Management Systems Technology
- (e) Cincinnati State Technical and Community College, Associate of Applied Science degree in Software Engineering Technology

**RESOLUTION**

BE IT RESOLVED: upon recommendation of the Chancellor and with the concurrence of the Initiatives Committee of the Ohio Board of Regents that the following new degree programs be approved:

Cincinnati State Technical and Community College

Associate of Applied Science degree in Web Design Technology  
Associate of Applied Science degree in Computer Graphics Technology  
Associate of Applied Science degree in Audio/Video Production Technology  
Associate of Applied Science degree in Database Management Systems  
Technology  
Associate of Applied Science degree in Software Engineering Technology

## **BACKGROUND**

### **CINCINNATI STATE TECHNICAL AND COMMUNITY COLLEGE**

Associate Degree Program in Web Design Technology  
Associate Degree Program in Computer Graphics Technology  
Associate Degree Program in Audio/Video Production Technology  
Associate Degree Program in Database Management Systems Technology  
Associate Degree Program in Software Engineering Technology

To ensure that Ohio keeps pace in the information technology arena, the Joint Council of the Ohio Board of Regents and the State Board of Education have developed through Tech Prep, itWORKS.OHIO – a comprehensive plan designed to keep Ohio students in secondary schools, colleges, and universities, on the leading edge of information technology knowledge and skills. The plan is based on a set of industry identified competencies and includes core academic areas. This plan is a key component of Ohio’s response to the information technology workforce shortage.

Cincinnati State Technical and Community College in supporting the implementation of itWORKS.OHIO has created a new Information Technologies Division. This division draws from existing degree and certificate programs and brings together faculty from the Business Technologies Division, the Engineering Technology Division and the Humanities and Sciences Divisions. The new division is structured to address the four occupational cluster areas defined as part of the itWORKS.OHIO strategy.

The creation of the IT Division is intended to create value for students such as:

- A single entry point for individuals interested in “computer careers”
- Advising that considers an individual’s previous educational background, work experience and career goals before suggesting potential course of study
- Innovative interdisciplinary approaches to instruction, elimination of may “duplicate” courses, and the ability to provide IT specialties not found elsewhere
- Organizational ability to react quickly and comprehensively to changes in information technology

At the heart of this change is realignment of curriculum around four occupational clusters: Information Support and Services, Network Systems, Programming and Software Development, and Interactive Media. To support Cincinnati State Technical and Community College in their strategy to respond to the information technology skills shortage the following Associate Degree programs and presented for approval.

#### Associate of Applied Science Degree in Web Design Technology

Web service companies are searching for creative individuals to build web sites. Companies wanting to expand into the growing Internet marketplace need talented Web Designers. Students will prepare for such opportunities by taking

a core of basic design classes supplemented with writing, graphics and authoring instruction. Emphasis will be on the creation of Internet web sites. Many elements go into successful web site design. Key elements include sensory, conceptual, and reactive aspects. Students will learn computer languages used to create the Web. Job titles include Web Designer, Web Content Designer, Quality Assurance Technician and Instructional Designer. Students will gain knowledge in the development of web content strategy and quality assurance activities. In addition to technical skills students will develop skills required for effective problem solving and team success.

#### Associate of Applied Science Degree in Computer Graphics Technology

Students with an art interest will be able to apply their talents in the computer graphics area. Basic design principles will be learned that are key to web design, computer graphics and electronic media authoring. Students will learn to apply graphics design to support promotional materials development, training course development, and web site construction. In addition to technical skills students will develop skills required for effective problem solving and team success. Job titles for which students will be prepared include Media Designer, Graphic Designer, Graphics Technician, and Interactive Digital Media Specialist.

#### Associate of Applied Science Degree in Audio/Video Production Technology

Students will take a core of classes in computer graphics, web design and authoring while concentrating on audio/video production and editing. Students will gain skills to support conventional film as well as web-based delivery. Students will learn about digital media concepts as well as pre-production, video production, lighting, and postproduction. In addition to technical skills students will develop skills required for effective problem solving and team success. Students will be prepared for jobs including Production Assistant, Audio/Visual Specialist and Project Manager.

#### Associate of Applied Science Degree in Database Management Systems Technology

Students will learn how to design, create, and program database systems using common industry software. Students will interface their databases with the Internet. A separate major will emphasize the administration of databases. Jobs students will be prepared to pursue may include Database Specialist, Database Analyst, Technical Support Representative.

#### Associate of Applied Science Degree in Software Engineering Technology

Software Engineering Technology students will write software in, Visual Basic, Visual C++, JavaScript, Visual Basic Script assembly, and Java. Graduates will be prepared to continue their education at the Baccalaureate level in the areas of Computer Science or Computer Engineering. Students will be prepared to

pursue employment in positions such as Programmer (Junior Level), Systems Analyst, and Software Applications Specialist.