CURRICULUM COMMITTEE WECM COURSE CHANGE FORM
2009-2010

DATE: Oct. 13, 2009

DEPARTMENT CHAIR: Dr. Warren Knox, Interim

DEPARTMENT: Computer Science and Information Technology

DISCIPLINE WHERE COURSE RESIDES: Microcomputers for Business Specialization

☐ WECM CHANGE TO EXISTING COURSE

(Indicate all applicable changes)

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Signature Indicates Approval:

Department Chair: [Signature] Date: 10/15/2009

Dean: [Signature] Date: 10-15-09

Curriculum Committee Approval: ☐ Yes ☐ No

Curriculum Committee Chair: [Signature] Date: 10-23-09

Vice President of Instruction: [Signature] Acting UPI Date: 10-30-09

Distribution of Copies by the Office of the Vice President of Instruction:

☐ Curriculum Committee Website ☐ Division Dean ☐ Financial Aid Director

☐ Registrar ☐ Department Chair
IMED - Instructional Media Technology
IMED 1191. Special Topics in Educational/Instructional Media Design (1-0-1) 13.0501
Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Designed to be repeated multiple times to improve student proficiency. Suggested prerequisite: ITSC 1405.

IMED 1301. INTRODUCTION TO MULTIMEDIA - Digital Media (2-4-3) 11.0801
A survey of the theories, elements and hardware/software components of multimedia digital media. Emphasis on conceptualizing and producing digital media presentations. Utilize the elements and hardware/software components of digital media; produce a digital media presentation; select optimal digital media strategies for various delivery systems; and examine digital media industry career opportunities. Topics include digital image editing, digital sound and video editing, animation, Website development and interactive presentations. Emphasis on conceptualizing and producing effective multimedia presentations. Prerequisite: ITSC 1301.

IMED 1305. Multimedia Courseware Development I (2-4-3) 13.0501
Instruction in courseware development. Topics include interactivity, branching, navigation, evaluation techniques and interface/information design using industry standard authoring software. Identify the learning process of the target audience; integrate appropriate digital media into courseware projects; and demonstrate the basics of prototyping courseware projects Course offered in the Fall semester only. Prerequisites: ITSC 1301, IMED 1301.

IMEd 1316. Web design (2-4-3) 11.0801
Instruction in Web page design and related graphic design issues including mark-up languages, Web sites and browsers. Identify how the Internet functions with specific attention to the World Wide Web and file transfer; apply design techniques in the creation and optimization of graphics and other embedded elements; demonstrate the use of World Wide Web Consortium (W3C) formatting and layout standards; and design, create, test, and maintain a web site. Prerequisite: ITSC 1405. Course offered in the Spring semester only.

IMED 1345. INTERACTIVE MULTIMEDIA - Digital Media (2-4-3) 11.0801
Exploration of the use of graphics and sound to create time-based interactive multimedia animations using industry standard authoring software. Develop an interactive digital media presentation integrating different types of media; design a navigation scheme; and demonstrate animation techniques. Suggested prerequisite IMED 1305. Course offered in the Fall semester only.

IMED 1491. Special Topics in Educational/Instructional Media Design (3-3-4) 13.0501
Topics address recently identified current events, skills, knowledges, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. Learning outcomes/objectives are determined by local occupational need and business and industry trends.

IMED 2301. INSTRUCTIONAL DESIGN (2-4-3) 13.0501
An in-depth study of the instructional design process based on learning theories including
evaluation of models and design examples. Apply the instructional design process to determine a project's content; produce an instructional multimedia project; test and revise the project. Prerequisites: ITSC 1301, IMED 1305.

IMED 2305. Multimedia Courseware Development II (2-4-3) 13.0501
In-depth coverage of programming/scripting using an icon-based authoring system with emphasis on advanced development of courseware products. Concepts of object-oriented programming in a multimedia environment will include the use of animation, the editing of audio files and video graphic images in the development of a multimedia program. Advanced techniques using a script language are presented to handle computer hardware events from other media devices such as CD-ROM and audio devices. Advanced scripting used to handle navigation, text presentation and manipulation of graphic images. Media presentations are developed that are nonlinear and have access to information sources from peripheral devices. Includes a “hands-on” laboratory. Plan and coordinate digital media projects; determine delivery platform considerations and limitations; create storyboards and treatments; apply consistent design conventions; and develop interactive courseware modules. Course offered in the Spring semester only. Suggested prerequisites: IMED 1345 and 2301.

IMED 2309. INTERNET COMMERCE (2-4-3) 11.0801
An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include database technology, creating Web sites in order to collect information, performing online transactions and generating dynamic content. Perform audience analysis; state marketing objectives; evaluate strategies for secure data transfer; and design a web project to use real-time processing capabilities intended to interact with a database. Course offered in the Spring Semester only. Prerequisite: IMED 1345. Suggested prerequisites: ITSE 1402, ITSC 1405 and IMED 2415.

IMED 2311. Portfolio Development (2-4-3) 11.0801
Emphasis on preparation and enhancement of portfolio to meet professional standards, professional organizations, presentation skills and job-seeking techniques. Arrange and refine projects for presentation; identify current industry requirements for employment; develop a presentation portfolio; and articulate the advantages of membership in a professional organization. Prerequisite: IMED 2305.

IMED 2313. Project Analysis and Design (2-4-3) 11.0801
Introduction to the multimedia planning process for multimedia or Web including costing, preparation, production legal issues and guidelines for pre-production preparation and creation of a comprehensive design document including target audience analysis, purpose and goals, objectives, content outline, flow chart and storyboard. Emphasis on content design and production management. Emphasis on copyright and other legal issues, content design and production management. Analyze client’s needs to determine a solution; develop a comprehensive design document that includes target audience analysis, budget, purpose, goals and objectives, content outline, flow chart, and storyboard. Prerequisite: IMED 2305.

IMED 2349. INTERNET COMMUNICATIONS (2-4-3) 11.1004
Web server software installation, configuration and maintenance. Includes scripting, website planning, testing, security, production and marketing. Course offered only in
the Spring semester. **Install and configure a secure web server; describe, evaluate, and use appropriate tools for web site publishing; test performance and platform compatibility; utilize basic server-side scripting; and develop projects that demonstrate website planning, testing, production, and marketing.** Suggested prerequisites: ITSC 1405, ITNW 1454.

**IMED 2351. MULTIMEDIA Digital Media PROGRAMMING (2-4-3) 11.0801**
Advanced topics in multimedia programming including custom scripts for data tracking. Emphasis on developing multimedia programs customized to the client's needs. Create and utilize custom functions and variables; develop error-checking objects; design intuitive navigation structures; and utilize advanced programming syntax. Prerequisite: IMED 1305 1301 and ITSE 1402 or COSC 1436. Suggested prerequisite: IMED 2305.

**IMED 2415. WEB DESIGN II (3-3-4) 11.0801**
Study of hypertext mark-up language (HTML) and interesting layout techniques for creating engaging well-designed Web pages. Emphasis on identifying the target audience and producing a Web site according to physical and technical limitations, cultural appearance and legal issues. Interactive database-driven Web sites developed to accomplish this, using Access, VB.NET, ASP.NET, Javascript and Personal Web Server technologies. Demonstrate the use of World Wide Web Consortium (W3C) standards for style, accessibility, layout, and formatting; build web pages with dynamic customization capabilities; develop web sites designed for usability and cultural diversity; and utilize design strategies to increase the success of locating the site via search engines. Prerequisites: IMED 1301 and 1316. Suggested prerequisites: ITSE 1402 and ITSC 1405.

**IMED 2459. Interactive Web Elements (3-3-4) 13.0501**
Production of projects using current Web development tools that may incorporate dynamic data, Web graphics, animation, video and audio streaming. Producing and editing video and sound for multimedia and Web projects using a desktop digital video workstation. Select and utilize web animation and graphic programs applicable to specified business conditions and applications, create and add animation to a website, digitize and stream a video segment to a website, and utilize World Wide Web Consortium (W3C) standards. Suggested prerequisite: IMED 1301.
CURRICULUM COMMITTEE WECM COURSE CHANGE FORM
2009-2010

DATE: October 13, 2009

DEPARTMENT CHAIR: Dr. Warren Knox, Interim

DEPARTMENT: Computer Science and Information Technology

DISCIPLINE WHERE COURSE RESIDES: Networking Technology

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Signature Indicates Approval:
Department Chair: Warren Knox
Date: 10/15/2009

Dean:
Date: 10-15-09

Curriculum Committee Approval: ☑ Yes ☐ No
Curriculum Committee Chair: James Klein
Date: 10-23-09

Vice President of Instruction:
Date: 10-30-09

Distribution of Copies by the Office of the Vice President of Instruction:
(Original remains in the Office of the Vice President of Instruction)
☑ Curriculum Committee Website ☐ Division Dean ☐ Financial Aid Director
☐ Registrar ☐ Department Chair
ITCC 1401. Exploration - Cisco Exploration 1 - Network Fundamentals (2-4–3 3-3-4)
11.1002
A course introducing the architecture, structure, functions, components, and models of the Internet. Describes the use of OSI and TCP layered models to examine the nature and roles of protocols and services at the applications, network, data link, and physical layers. Covers the principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations. Build simple LAN topologies by applying basic principles of cabling; perform basic configurations of network devices, including routers and switches; and implementing IP addressing schemes. Prerequisites: ITSC 1401, or COSC 1401, or CPMT 1403; COSC 1309, or ITSE 1402.
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DATE: October 13, 2009

DEPARTMENT CHAIR: Dr. Warren Knox, Interim

DEPARTMENT: Computer Science and Information Technology

DISCIPLINE WHERE COURSE RESIDES: Professional Electronics

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Department Chair: [Signature]
Date: 10-15-2009

Dean: [Signature]
Date: 10-16-09

Curriculum Committee Approval: ✔ Yes □ No
Date: 10-23-09

Vice President of Instruction:
Date: 10-30-09

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☑ Curriculum Committee Website □ Division Dean □ Financial Aid Director
□ Registrar □ Department Chair
CETT - Computer Engineering Technology

CETT 1402. ELECTRICITY PRINCIPLES (2-6-4) 15.0501 15.1201

CETT 1415. Digital applications (3-4-4) 15.0301 15.1201

CPMT - Computer Maintenance Technology

CPMT 1443. MICROCOMPUTER ARCHITECTURE (3-4-4) 47.0105 47.0104