COMPUTER INFO TECHNOLOGY/BTS (CITPT)

Courses
CITPT-101 INTRODUCTION TO WEB DESIGN & DEVELOPMENT 3.00 Credits
A contemporary and comprehensive introduction to web design/development technologies and subjects.

CITPT-102 COMPUTERIZED TEN-KEY 1.00 Credit
Builds speed and accuracy using the numeric keypad on a computer. Develops data entry skills based on industry standards. This is a self-paced course that does not meet regularly with the instructor.

CITPT-106 INTRODUCTION TO COMPUTER PROGRAMMING 3.00 Credits
Introduction to computer programming logic and design with an emphasis on web application development.

CITPT-110 BUSINESS COMPUTER SKILLS 3.00 Credits
Comprehensive computer course incorporating Windows, Word, Excel, Access, and PowerPoint using practical business and personal applications. Pre-requisite: Student must be able to type 28 wpm or take WRPPT-100.

CITPT-111 WEB DEVELOPMENT BASICS 3.00 Credits
Provides a foundation in web development and design through a comprehensive study and hands-on application of contemporary Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS).

CITPT-117 WEB DESIGN FUNDAMENTALS 3.00 Credits
An introduction to design theory in websites and the use of industry development tools. Students will learn and apply standards related to site specifications, layout, navigation, organization, color, typography, and content development. Students will focus on the importance of a user-centered design that meets the expectations of a client or customer.

CITPT-120 INTRO TO GAME DEVELOPMENT 3.00 Credits
Course provides a hands-on comprehensive overview of roles within the video game development studio. Students will learn about the Scrum software development framework and how different roles interact with each other within an indie and AAA gaming studio. No prior programming experience is required.

CITPT-144 MULTIMEDIA WEB APPLICATIONS 3.00 Credits
Explores contemporary instances of web application software designed to enhance websites with more dynamic content. This class has a hands-on approach and students will be expected to work through activities step-by-step and then take the basic competencies to create more advanced, original web application content. Cross-listed with CITPT-344.

CITPT-175 INTERACTIVE WEB SCRIPT 3.00 Credits
Course provides a comprehensive overview of client-side scripting technologies and methods. Pre-requisite: CITPT-106 and CITPT-111 or CITPT-311.

CITPT-189 DIRECTED WEB AUTHORING PROJECT 1.00-3.00 Credits
Requires field experience on a team-based, organizational website project.

CITPT-190 DIRECTED STUDY IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-191 WORKSHOPS IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-192 SPECIAL TOPICS IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-194 INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY 1.00-12.00 Credits
CITPT-194A INTERNSHIP IN COMPUTER INFORMATION I TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.

CITPT-194B INTERNSHIP IN COMPUTER INFORMATION II TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.

CITPT-194C INTERNSHIP IN COMPUTER INFORMATION III TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.

CITPT-194D INTERNSHIP IN COMPUTER INFORMATION IV TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.

CITPT-206 INTERMEDIATE COMPUTER PROGRAMMING 3.00 Credits
An in-depth approach to creating and debugging object-oriented applications and techniques of implementation for web applications. Topics include classes and objects, inheritance, polymorphism, namespaces, assemblies, exception handling, debugging, data collections, and event driven programming. Emphasis is on software design and development and real-world applications. Requires Microsoft Windows. Pre-requisite: CITPT-106.

CITPT-212 SPREADSHEETS AND DATABASES IN BUSINESS 3.00 Credits
Instruction reviewing basic features and utilizing advanced features, functions, and capabilities of spreadsheets and databases. Pre-requisite: CITPT-110 or permission of instructor.
CITPT-213 WEB DATABASE TECHNOLOGIES 3.00 Credits
Expands basic database skills into the web environment and enterprise level applications. This course covers database design theory and advanced database application topics in contemporary, multi-user environments. Pre-requisite: CITPT-106. Cross-listed with CITPT-413.

CITPT-214 DESKTOP PUBLISHING 3.00 Credits
Teaches skills in page layout software to produce professional, high-quality documents containing text, graphics, and scanned images, using a desktop publishing system. Pre-requisite: CITPT-110.

CITPT-217 ADVANCED WEB DESIGN 3.00 Credits
A comprehensive study of various web design concepts and skills. Students will learn and apply concepts in a project-based manner. Special emphasis will be placed on learning and applying advanced web design techniques on real-world projects. Pre-requisite: CITPT-117 or CITPT-317.

CITPT-225 WEB FRAMEWORKS 3.00 Credits
A skill-based study of popular server-side web application frameworks. Students will learn how to build interactive and dynamic web site components. Pre-requisite: CITPT-206 with a grade of 'C' or better.

CITPT-227 WEB APPLICATION DEVELOPMENT 3.00 Credits
A hands-on study of web development for dynamic, data-driven web applications using contemporary technologies and development software. Pre-requisite: CITPT-106.

CITPT-265 IMAGE EDITING AND ILLUSTRATION 3.00 Credits
Comprehensive experience in image editing, drawing, painting, and typography.

CITPT-275 WEB AUTHORING SYSTEMS 3.00 Credits
A comprehensive study in web content management systems and when/how to use them properly. Topics include CMS installation and maintenance, website management, theme design, and extension development. Pre-requisites: CITPT-111 or CITPT-311.

CITPT-280 WEB DEVELOPMENT CAPSTONE 3.00 Credits
The web development capstone course provides web design and development students with the opportunity to integrate knowledge gained across the curriculum. Students will develop personal portfolios, data-driven web or mobile applications, and work in teams to apply knowledge to real-world situations. Students will work to identify client needs, develop a project proposal and specification, and implement the proposed specification. Lecture topics include web hosting setup, website optimization, accessibility, and user experience. Pre-requisite: CITPT-117 or CITPT-317 and CITPT-175 or CITPT-375.

CITPT-290 DIRECTED STUDY IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-291 WORKSHOP IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-292 SPECIAL TOPICS IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-294 INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY 1.00-12.00 Credits
CITPT-294A INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-294B INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-294C INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-294D INTERNSHIP IN COMPUTER INFORMATION TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.

CITPT-311 WEB DEVELOPMENT BASICS 3.00 Credits
Provides a foundation in web development and design through a comprehensive study and hands-on application of contemporary Hyper Text Markup Language (HTML) and Cascading Style Sheets (CSS).

CITPT-317 WEB DESIGN FUNDAMENTALS 3.00 Credits
An introduction to design theory in websites and the use of industry development tools. Students will learn and apply standards related to site specifications, layout, navigation, organization, color, typography, and content development. Students will focus on the importance of a user-centered design that meets the expectations of a client or customer.

CITPT-344 MULTIMEDIA WEB APPLICATIONS 3.00 Credits
Explores contemporary instances of web application software designed to enhance websites with more dynamic content. This class has a hands-on approach and students will be expected to work through activities step-by-step and then take the basic competencies to create more advanced original web application content. Cross-listed with CITPT-144.

CITPT-375 INTERACTIVE WEB SCRIPT 3.00 Credits
Provides a comprehensive overview of client-side scripting technologies and methods. Pre-requisite: CITPT-106 and CITPT-111 or CITPT-311.
CITPT-390 DIRECTED STUDY IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-391 WORKSHOP IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-392 SPECIAL TOPICS IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-394 INTERNSHIP IN WEB DEVELOPMENT 1.00-12.00 Credits
CITPT-394A INTERNSHIP IN COMPUTER INFORMATION I TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-394B INTERNSHIP IN COMPUTER INFORMATION II TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-394C INTERNSHIP IN COMPUTER INFORMATION III TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-394D INTERNSHIP IN COMPUTER INFORMATION IV TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-394E INTERNSHIP IN COMPUTER INFORMATION V TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-395 WEB DATABASE TECHNOLOGIES 3.00 Credits
Expands basic database skills into the web environment and enterprise level applications. This course covers database design theory and advanced database application topics in contemporary, multi-user environments. Pre-requisite: CITPT-106. Cross-listed with CITPT-213.
CITPT-417 ADVANCED WEB DESIGN 3.00 Credits
A comprehensive study of various web design concepts and skills. Students will learn and apply concepts in a project-based manner. Special emphasis will be placed on learning and applying advanced web design techniques on real-world projects. Students enrolled in CITPT-417 will have an additional research project to complete for this course. Prerequisite: CITPT-117 or CITPT-317.
CITPT-465 IMAGE EDITING AND ILLUSTRATION 3.00 Credits
Comprehensive experience in image editing, drawing, painting, and typography.
CITPT-475 WEB AUTHORING SYSTEMS 3.00 Credits
A comprehensive study in web content management systems and when/how to use them properly. Topics include CMS installation and maintenance, website management, theme design, and extension development. Pre-requisites: CITPT-111 or CITPT-311.
CITPT-480 WEB DEVELOPMENT CAPSTONE 3.00 Credits
The web development capstone course provides web design and development students with the opportunity to integrate knowledge gained across the curriculum. Students will develop personal portfolios, data-driven web or mobile applications, and work in teams to apply knowledge to real-world situations. Students will work to identify client needs, develop a project proposal and specification, and implement the proposed specification. Lecture topics include web hosting setup, website optimization, accessibility, and user experience. Pre-requisite: CITPT-117 or CITPT-317 and CITPT-175 or CITPT-375.
CITPT-490 DIRECTED STUDY IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-491 WORKSHOP IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-492 SPECIAL TOPICS IN COMPUTER INFORMATION TECHNOLOGY 1.00-6.00 Credits
CITPT-494 INTERNSHIP IN COMPUTER INFORMATION SYSTEMS 1.00-12.00 Credits
CITPT-494A INTERNSHIP IN COMPUTER INFORMATION I TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-494B INTERNSHIP IN COMPUTER INFORMATION II TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-494C INTERNSHIP IN COMPUTER INFORMATION III TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.
CITPT-494D INTERNSHIP IN COMPUTER INFORMATION IV TECHNOLOGY 6.00 Credits
Internship in Computer Information Technology.