



Wayne County Community College District

Course Syllabus

CIS 241

Internet Foundations

CREDIT HOURS: 4.00

CONTACT HOURS: 60.00

COURSE DESCRIPTION:

This course prepares students to work effectively in today's business environment. This course teaches students about internet connection methods, protocols, hypertext markup language, along with networking technologies. Students will learn about how websites are developed, wireless networking.

EXPECTED COMPETENCIES



Wayne County Community College District

Course Syllabus

Upon successful completion of this course, the student will:

Recognize essential database concepts

- o Identify job roles in the Information Technology (IT) industry, including the responsibilities, tasks and skills they require
- o Identify the infrastructure required to access the Internet, including hardware and software components.
- o Define important Internet communications protocols and their roles in delivering basic Internet services.
- o Identify the basic principles of the Domain Name System (DNS).
- o Identify the functions of Web browsers, and use them to access the World Wide Web and other computer resources
- o You Use e-mail clients to send simple messages and files to other Internet users.
- o You Define and use additional networking and Internet services.
- o You Demonstrate ways to communicate effectively using Internet technology
- o You Identify and configure user customization features in Web browsers, including: preferences, caching, cookies
- o You Identify security issues related to Internet clients in the workplace, including: certificates, malware, illicit servers, viruses.
- o You Identify and use principles of Personal Information Management (PIM), including: common applications
- o You Efficiently transmit text and binary files using popular Internet services.
- o You Identify security-related ethical and legal issues faced by IT professionals.
- o You Relate project management concepts and terms to the IT profession
- o You Recognize essential database concepts
- o You Demonstrate knowledge required to create a Web page
- o You Add images and graphical formatting to HTML files.
- o You Identify front-end and back-end Web design issues
- o You Identify and use design and color principles for Web pages.

- o You Create a basic HTML form that accepts user input.

- o You Create a basic HTML form that accepts user input.

- o You Define Extensible Markup Language (XML), and identify its features and appropriate use
- o You Identify essential Web site navigation issues, and ensure page/site accessibility.
- o You Define and apply essential aspects of the Cascading Style Sheets (CSS) standard
- o You Use Extensible Hypertext Markup Language (XHTML) to create Web pages.
- o You Identify technologies for enhancing the user's Web experience, including: programming languages, multimedia technologies.
- o You Use GUI-based HTML editing software to create Web pages.
- o You Test and analyze Web site performance issues.

- o Identify steps in the Web site planning and development process
- o You Identify essential issues in developing and maintaining a Web site, including: project management, testing, legal issues
- o You Plan and deliver oral presentations of your Web site, during and after site development.



Wayne County Community College District

Course Syllabus

- o You Define electronic commerce (e-commerce) and related technologies and concepts necessary to develop a secure, useful interface (i.e., storefront).
- o You Demonstrate knowledge of languages commonly used to provide database connectivity to Web sites.

- o You Identify the benefits and drawbacks of running your own Web server versus using a service provider.

- o You Identify common strategies for managing an end user's experience and improving site creativity.

- o You Consider copyright and ethical issues when creating Web pages
- o You Demonstrate knowledge of basic data communications components, and demonstrate technical knowledge of the Internet
- o You Identify the role of networking hardware, and configure common hardware for operation
- o You Identify the relationship between IP addresses and domain names, including: assignment of IP addresses within a subnet.

- o You Identify the functions and components of servers commonly used on the Internet.

- o You Identify common Internet security and availability issues, including: user-level and enterprise-level concerns.
- o You Identify common performance issues affecting Internet clients, including: analysis, diagnosis.
- o You Perform basic hardware and system maintenance for network-aware systems.
- o You Manage fundamental elements of modern network-based client operating systems.

- o You Configure and troubleshoot wireless networks.
- o You Manage career opportunities in the IT industry
- o You Represent technical issues to a non-technical audience.

ASSESSMENT METHODS

Student performance may be assessed by examination, quizzes, case studies, oral reports, group discussion, written reports or presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE

90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E