

Common Course Outline
EBUS 130
E-Business Infrastructure
3 Semester Hours

The Community College of Baltimore County

Description

E-Business Infrastructure is designed to introduce students to the infrastructures of an e-business. Students will learn basic network terminology, architecture, software, protocols, intrusion detection methodologies, and administrative and support issues. All of these concepts will be applied to a variety of e-business requirements and environments.

Prerequisite: CINS 101; Co-requisites: EBUS 102 or permission of program coordinator

Overall Course Objectives

Upon completion of this course the student will be able to:

1. identify the basic concepts and components of a network;
2. explain the role of a network in an e-business;
3. compare and contrast the features of major operating systems;
4. identify the hardware components of a network;
5. explain the function and purpose of the tiers in an n-tier network architecture;
6. describe the primary protocols utilized in network/Internet communications;
7. identify intrusion detection methodologies used to secure an e-business system;
8. identify administrative and support issues for an e-business system; and
9. identify the infrastructure components of an existing e-business system given in a case study.

Major Topics

- I. Elements of a networked computing infrastructure
- II. Client/server architecture
- III. Network software
- IV. Network communication -- TCP/IP
- V. Application infrastructure issues
 - A. Web chat
 - B. Multimedia content delivery
 - C. Online selling requirements
- VI. Internet Security of e-business
 - A. Security requirements
 - B. Hardware and software systems that satisfy these requirements

- VII. Scalability and performance issues
- VIII. Future directions for the Internet

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following:

- one term project
- two written exams
- quizzes
- homework assignments
- discussion participation

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

- This course is a required course for the Technology Track of the E-Business program.
- This course is taught online.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

Date Revised: 12/01/02