General Class Information

Instructor Name and Contact Information: Dr. David O. Ward, Adjunct Instructor, dow6p@virginia.edu and david.ward@fcc.gov, work telephone: (202) 418-2336.

Subject Area and Catalog Number: BUS 5060 section 701, class no. 20433

Year and Term: 2015 1152, spring term 1

Class Title: Understanding technology used in an open access environment

Level: graduate

Credit Type: 3 credit hours

Class Description: Students develop an understanding of the technology used to distribute information in support of eBusiness and the security concerns inherent in an open access environment. Instruction surveys the technologies that are key for backend integration (XML, CORBA, DCOM and JavaBeans) and front-end deployment (HTML and Java). Course work reviews the strengths and weaknesses of common operating systems such as Windows NT, Linux, and Unix as well as the risks versus benefits of deploying one system over another. Communications concepts such as TCP/IP, ISP delivery channels, and wireless technology are discussed in detail. Performance and security issues relative to each technology introduced in this course are discussed in depth.

Required Text:

a. Winkler, J.R. (2006). Securing the cloud: cloud computing security techniques and tactics. Waltham, MA: Elsevier. ISBN: 9781597495929.

b. Handouts uploaded to UVaCOLLAB.

c. Power point slides that serve as lesson outlines uploaded to UVaCOLLAB.

Learning Outcomes:

a. Students will grasp the fundamentals of internet technology by way of an extensive review in class.

b. Students will understand the security strengths and weaknesses of legacy open access technologies, including: XML, CORBA, DCOM, JavaBeans, HTML and Java.

c. Students will know the advantages of applying cloud technology to computing applications, communications and information storage.

d. Students will be able to articulate a migration strategy from legacy open access technologies to the cloud technology.

e. Students will apply defense-in-depth techniques to achieve information assurance in the cloud computing environment.

Assessment Components:

1. The cloud computing policy drafting exercise 200 basis points

2. The midterm exam 300 basis points

3. The final exam 300 basis points

4. Participation in asynchronous discussion fora 200 basis points

Delivery Mode Expectations:

a. Synchronous instruction component. Classes will meet live on UVaCOLLAB only every Wednesday at 7 PM Eastern time, beginning on 14 January 2015. Students and the professor will log into UVaCOLLAB at the same time. The class will be recorded and made available for downloading and re-playing, at the students' convenience.

b. Asynchronous instruction component. Students will log into UVaCOLLAB weekly, at a time/place of their convenience, respectively, and complete the discussion topics provided for that week. The quality and quantity of student responses and interaction will determine the participation grade.

Required Technical Resources and Technical Components:

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| Technical Support | * Email to: [idtteam@virginia.edu](mailto:idtteam@virginia.edu) * Login/password: [scpshelpdesk@virginia.edu](mailto:scpshelpdesk@virginia.edu) * UVACollab: [collab-support@virginia.edu](mailto:collab-support@virginia.edu)   BbCollaborate (Elluminate) Support: [idtteam@virginia.edu](mailto:idtteam@virginia.edu) or <http://support.blackboardcollaborate.com> |