MIS 6340 - Doctoral Seminar in Emerging Technologies

The objective of this course is to provide the student with an understanding of emerging technologies that are expected to have wide impact on the future of computing. The student will be able to critically examine the issues/impact and will be exposed to research trends within these areas, such as themes, methods (methodologies used) and will be able formulate pertinent research questions. The student will be exposed to the following topics (but not limited to): Agile Development Methods; Biometrics; DNA Computing; Grid Computing; Intrusion Detection; Security; Location-based Technologies; Management Service Providers; Open Source Software; Peer to Peer Computing; Web Services; Wireless Communications; XML, etc.

Program: Add: _____ Change: _____ Attach new/changed Program of Study description and 4-year plan. If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red.

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College Introductory Pages: Add information: _____ Change information: _____ Attach new/changed information. If in current catalog, copy and paste the text from the on-line catalog and indicate changes in red.
Approvals:

Chair
Department Curriculum Committee

Signature

Date
7/22/05

Chair
Department

Signature

Date
7/28/05

Chair
College Curriculum Committee

Signature

Date
9/1/05

Dean

Signature

Date
9/15/05
MIS 6340 Seminar in Emerging Technologies

Credit:
Three semester hours

Course Description:
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Prerequisites:
Consent of the instructor and the Graduate Advisor

Student Learning Outcomes:
- Students will assess and appraise issues, methodologies, and research trends in the literature on emerging information technologies and integrate their findings into seminar research projects.
- Students will integrate course content in written and oral projects and reports suitable for presentation in academic and professional settings.

Seminar Topics:
- Identification and assessment of emerging technologies
• Emerging technologies and public policy
• Lessons from the Internet
• Intrusion detection
• Assessing future markets for emerging technologies, location-based technologies
• Technology strategy in lumpy market landscapes
• Management service providers
• Commercializing emerging technology through complimentary assets
• Open source software
• Strategy making in uncertain environments, outsourcing
• Scenario planning for disruptive environments
• Peer-to-Peer computing
• Approximating the gains from innovation
• Web services
• Managing real options
• Wireless communications
• Financing strategies and venture capital
• Managing dynamic knowledge networks
• The design of new organizational forms
• Designing the customized workplace