CAPP/TBS COURSE SCHEDULE FALL 2014

COURSE #	NAME	INSTRUCTOR	TIME	DAYS

Applications

CAPP 40545   Computers in Psychology Research & Educ.

Crowell   TBA   TBA

This course and its counterpart in Psychology (PSY 388) are project-oriented. It is not an introductory course on computer applications. Students need to already have (or learn during the semester) the skills needed to complete whatever project is defined. Generally, projects are applications or systems that fit into the broad spectrum of the instructor's interests, which students can determine by consulting the instructor's web page (http://www.nd.edu/~ccrowell). New projects are defined each semester. Some recent projects have involved:
1. Developing a multimedia instructional system on management and coaching including graphics, video and audio files.
2. Creating a visual basic application to administer and collect survey data.
3. Exploring and comparing the capabilities of online teaching tools.
4. Developing a web site for student advising in the Psychology Department.
5. Completing a database application in Microsoft Access for tracking and reporting manager coaching sessions.
Students are expected to plan and develop a functional application, which will take as much or more time as other regular three credit courses.

CAPP 40557   Advanced Enterprise Applications

Miller   11:00-12:15   MW

This course will provide experience with a full range of applications which are employed in the 21st century organizations including enterprise business software, smartphone apps, collaborative tools such as Share point, Wiki, Blog sites and tools for integration with Facebook, Twitter and Google tools. The course will also provide understanding of and experience with Cloud Computing and Web Services which are providing a new paradigm for deployment of applications without the traditional data center. The course will focus on how all of these packaged and custom software can be integrated in the modern organization to meet organizational goals.

CAPP 40560   Case Studies in Computer-Based Entrep.
Bowyer   3:30-4:45   WF

The purpose of this course is to Inform, Introduce and (hopefully) Inspire you. You will become informed about computing-based entrepreneurship case studies across a wide variety of areas: computer software, computer hardware, healthcare technologies, databases, web services, data analytics and more. You will also become informed about different aspects of the entrepreneurship challenge. You will be introduced to guest speakers who are, or who have been, principals in developing technology, founding companies, running companies, selecting technologies for venture capital investment, etc. As a result, you will hopefully be Inspired to consider pursuing computing-based entrepreneurship opportunity.

CAPP 40561   Web Design 1: Intro.to Web-Based Interactivity
Murnieks   11:00-1:45 MW

Exploration of on-line interactive communications for web enabled platforms including desktop and mobile devices. Application of user-centered design principles to hierarchical and I navigational structures, interface, web typography, imagery, sound, and motion through a series of exercises and projects. Survey of technological aspects to web site design, development and production.

CAPP 40610   Fundamentals of Business Thinking
Sucec   12:30-3:15   T

This course is designed to provide an integrated understanding of the foundational business disciplines of accounting, finance, marketing, and management, especially for CAPP majors planning a career in business. Fundamental leadership and consulting skills will also be addressed. Case analysis, coupled with a highly interactive format, will be employed to ensure practical exposure to today's business environment. Primary areas of focus will address the critical elements for success in the corporate environment, the knowledge and preparation necessary to facilitate your interviewing process, and the business fundamentals for those with entrepreneurial aspirations.

CAPP 40620   **Digital and Forensic Psychology**

                              Kajzer   **12:30-1:45**   **MW**

The use and interaction with digital devices is a part of daily life. This course will introduce students to the principles of forensic psychology as they apply to cybercrime offenses along with the field of computer forensics techniques and methodologies. Topics to be covered include the motivations of hackers, online child offenders, cyber stalkers, and identity thieves along with electronic discovery, Windows forensic analysis procedures, and Macintosh forensic analysis procedures.

CAPP 41541   **ID: Digital Solid Modeling**   **Phaup**   **9:30-12:15 TR**
Co-requisite: CAPP 41542 MATERIALS FEE This course is an introduction to various digital design techniques and workflows used by industrial designers. Students will explore design processes integrating digital tablet sketching and computer-aided design (CAD) in order to develop and effectively communicate design concepts. The course is aimed at students seeking to expand their 3-D visualization skills into a digital medium. Software introduced will include Autodesk Sketchbook Pro and Solidworks 3-D. 3 credits

CAPP 41542   **ID: Rapid Phototyping Lab Phaup**   **7:00-8:00**   **M**
Co-requisite: CAPP 41541 The Rapid Prototyping evening tutorial sessions will enable students making physical 3D prototypes from digital files that are virtually modeled in the ID: Digital Solid Modeling or ID: Digital 3D courses. Instruction in file preparation and safe machine operation will lead to prototype output from a CNC milling machine, 3D printer and digital laser cutter. 1 credit

CAPP 41562   **VCD 7: Interaction Design**   **Murnieks**   **2:00-4:45**   **MW**
Evaluation, design and simulation of user interaction with a computer or product interface. Development of interfaces through wireframes, sketches, renderings, illustrations, modeling and animatic sequences. Exploration of user testing and research methods for generative, participatory and evaluative stages of design.

COURSE #	NAME	INSTRUCTOR	TIME	DAYS

CAPP 45565   Internship 01   Crowell   TBA   TBA
This internship is for UNPAID work with various for-profit civic, public and or private organizations using acquired computer applications knowledge and skills. Credit is given only if work is unpaid and is done in the Information Systems area of an organization. Typically this internship is completed in the summer.

CAPP 45565 CAPP/TBS Comm. Serv. Intern. 02 Crowell TBA   TBA
This internship was created to allow an interested CAPP/TBS student to lend their skills and talents to a worthy cause usually involving a non-profit, religious, or campus groups in our local community. Credit is given only if work is unpaid and significantly involves the use of Information technology skills. This internship might be done locally during the academic year.

CAPP 47567   Special Studies 01   Crowell   TBA   TBA
This course involves an independent study development or other project that requires completion of a significant body of work combining technology in some way with an academically acceptable content knowledge area or discipline, such as a student's primary major. Enrollment in this course requires approval of a written proposal outlining the specific details of the proposed project. For guidelines on the required proposal and approval process see the CAPP website. CAPP/TBS students only.

Languages

CAPP 30350   Visual Basic   Irmiger   5:05-6:20 MW
The course will investigate object-oriented data processing concepts using Microsoft's Visual Basic Programming Language. Technology and technique will be combined to explore the object-oriented paradigm. Object-oriented will be compared to traditional procedural paradigms wherever appropriate.

CAPP 30550   JavaScript   Casault   9:30-10:45   TR
JavaScript is a popular scripting language used to add dynamic elements that breathe life into boring static Web pages. JavaScript is designed to work in standard Web browsers and is tightly integrated with HTML. You would be hard pressed to find any popular commercial Web sites that don't use JavaScript to create an interactive user experience. Join this class and learn how to apply JavaScript in to your own Web projects.

Computer Ethics

CAPP 40720 Cybercrime and the Law Tamashasky 11:30-12:20   MWF
Almost all crimes, or even human interactions, contain a digital component. The fact that "old" laws don't always fit "new" problems is no more apparent than in the area of cybercrimes. This course will include discussion of topics including: the methodology of typical cyber investigations, the application of the Fourth Amendment to digital evidence, and different types of cyber-specific laws enforced today. The course will also focus on the responses of both courts and legislators to the ever-evolving issues presented by computer crimes.

Technology & Society

CAPP 40260   Information Security   Chapple   1:00-2:15 TR
This course provides students with a working knowledge of information security topics through a focus on best practices, applications and implementation strategies. Students will learn the fundamental principles of information security and explore contemporary topics in the field, including access control methodologies, business continuity/disaster recovery planning, firewalls, network security, operating system security, intrusion detection, cryptography and incident handling.

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