### Technology Related Ethics

To be determined.

### Technology and Society

**40260 Information Security**

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.
Programming Language

30370 Introduction to Web Development
The goal of this course is to provide working experience with the full range of front-end technology needed to produce a modern website. The course will cover Planning, Discovery, Information Architecture, Wireframing, Semantic HTML Markup, CSS Layout and JavaScript. Emphasis will be placed on building sites that can be viewed on any device using Progressive Enhancement and Responsive Web Design/Development. Some time will be spent covering CMS options and server-side languages but will not be a focus of the course.

30550 Digital 3-D Modeling (DESN)(FTT)
This is an introductory course to Rhinoceros. The focus of this class is to learn how to use the software to generate 3D virtual models with an emphasis on industrial design concerns as well as creating manufacturable data for rapid prototyping. The class will be devoted to learning tools, interface, modeling and rendering methods. This will be achieved by completing specific assignments and tutorials. The final assignment will be to virtually model and render a product or scene from a concurrent class or personal interest.

30559 Information Design: Data Driven Design (DESN)
Visualization and sequencing of complex or abstract subject matter for the purpose of informing, educating or training the end-user. Design process includes the acquisition of information and data to become a subject matter expert on a project topic. Development of topics through the parsing of information, focusing of subject, sketching, illustration and graphical data representation. Delivery of information through an interactive, user-driven experience possibly exploring handheld devices.

40561 Web Design 1: Introduction to Web-Based Interactivity (DESN)
Exploration of on-line interactive communications for web enabled platforms including desktop and mobile devices. Application of user-centered design principles to hierarchical and 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.

40610 Fundamentals of Business Thinking
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.

45565 01 Internship
This encompasses working with various civic, public and or private organizations using acquired computer applications knowledge and skills. Credit is given only if work is done in the Information Systems area of an organization.

45565 02 CAPP/TBS Community Service Internship
This internship was created to allow an interested CAPP/TBS student to lend their skills and talents to a worthy cause in our local community.

47567 01 Special Studies
This independent study course involves a programming or development project developed by a student in conjunction with a faculty advisor. Special independent study guidelines and permissions apply to this course that is described in a document available on the CAPP website (http://www.nd.edu/~ccrowell). CAPP/TBS students only. NOTE: College guidelines apply as well.