ITM 514
Enterprise Application Architecture
This course examines current enterprise application architectures from the perspective of senior technology planners and managers. Topics such as models and patterns of enterprise application architecture, application virtualization, cloud application architectures, integration of custom application infrastructure with major vendor products, and full systems integration issues will be addressed.
Prerequisite(s): ITMD 510 with min. grade of C
Lecture: 3 Lab: 0 Credits: 3

ITM 531
Object-Oriented System Analysis, Modeling, and Design
This course will cover object oriented approaches to system analysis, data modeling and design that combine both process and data views of systems. Emphasis is given to practical problems and the techniques needed to create solutions in systems design.
Lecture: 3 Lab: 0 Credits: 3

ITM 533
Operating System Design Implementation
This course introduces students to the fundamental principles of operating systems design and gives them hands-on experience with real operating systems installation, design, and implementation. The students apply what they learn about operation systems design to practical implementation by modifying and extending the MINIX Operating System. MS Windows and LINUX are briefly discussed as case studies.
Prerequisite(s): ITMD 512 with min. grade of C
Lecture: 3 Lab: 0 Credits: 3

ITM 535
Data Center Architecture
The course deals with building integrated data center information infrastructures, including facility, hardware, software, and network components as solutions to particular enterprise information management needs and requirements. Students will learn critical elements of modern data center design including physical plant construction; network infrastructure; data storage technologies; power provisioning and conditioning; environmental controls and HVAC; system and physical security; modular component use; and planning for growth.
Lecture: 3 Lab: 0 Credits: 3

ITM 537
Instructional Technologies
In this course students will create, assess, and deploy current technologies used for K-College instruction and corporate training environments. Topics covered include developing training materials, courses, individualized instruction, websites, multimedia projects, and on-line instruction in educational settings. Focus will be given to modern programming environments and models for developing instructional materials.
Lecture: 3 Lab: 0 Credits: 3

ITM 591
Independent Study and Research
Research and Thesis for Masters’ degrees. Instructor permission required.
Credit: Variable

ITM 593
Embedded Systems
This course introduces embedded systems concepts and technology, illustrates the trade-offs which occur as part of embedded systems design, as well as providing practical applications of embedded systems technology. Particular emphasis is given to embedded systems hardware, software and development tools. The course labs include hands-on development of several stand-alone embedded applications using development tools such as compilers, simulators and evaluation boards. Prerequisite: ITM 301 or equivalent computer architecture course; C/C++ programming experience.
Lecture: 2 Lab: 2 Credits: 3

ITM 594
Special Projects in Information Technology
Special projects.
Credit: Variable

ITM 595
Topics in Information Technology
This course will cover a particular topic, varying from semester to semester, in which there is particular student or staff interest.
Credit: Variable

ITM 596
Graduate Honors Studies in Information Technology
Graduate honors project, thesis or whitepaper. Prerequisites: Graduate honors status and consent of the instructor.
Credit: Variable

ITM 597
Special Problems in Information Technology
Independent study and project.
Credit: Variable