

Course Descriptions

Fall 2006

ITK 341: Object-Oriented System Development

The main concepts of Object Oriented technology; the course centers on OO methodology, and all phases of the development life cycle including analysis, design, and implementation.

Offered:

MW 5:00-6:15 PM

Instructor:

Dr. Robert Zant

Prerequisite:

“C” or better in ITK 261

ITK 352: Multimedia Technology Applications

This course provides students with an introduction to multimedia technology. The course takes a practical approach to the design and development of multimedia applications. A variety of emerging web technologies, scripting languages and authoring tools are also examined in the class.

Offered:

(1) TR 12:35-1:50 PM

(2) TR 8:00-9:15 PM

Instructor:

Dr. Joaquin Vila Ruiz

Prerequisite:

“C” or better in ITK 261

ITK 356: Introduction to Computer Graphics

This course provides students with an introduction to Computer Graphics. Along with fundamental theory, the course takes a practical approach to the design and development of two and three dimensional computer graphics applications. The graphics language is OpenGL, and the computer language is C++.

This course examines a broad range of graphics applications and techniques. The emphasis is on applying graphics tools, algorithms, and mathematics to the construction of interactive graphics software.

Offered:

MW 6:30-7:45 PM

Instructor:

Dr. Tom Portegys

Prerequisite:

“C” or better in ITK 279 or concurrent registration

ITK 368.01, 368.03, 385: Section 1: Introduction to Enterprise Systems Computing

This is a first course in Enterprise Systems Computing (ESC), an IT field with a growing demand among major corporations. In this course students will learn the architecture, operating system, and system integration of the new IBM z-Series mainframe computer. We will also learn how to perform troubleshooting using IBM system utilities, do system programming, and use Web interfaces. Hand-on activities will include some JCL, Assembly, and REXX programming.

IBM z-Series is a state-of-art mainframe system and that is widely used by major corporations, including many local companies. For more information on the IBM z-Series, please refer to:

<http://www-03.ibm.com/servers/eserver/zseries/z890/>

Offered:

TR 6:30-7:45 PM

Instructor:

Dr. Chu Jong

Prerequisite:

“C” or better in ITK 225 or 254 or 325

ITK 385, Section 2: Advanced Problem Solving

Emphasis will be on problem solving and team work. Brainstorming will be an almost daily activity. The problems are interesting, challenging, engaging, exciting, and sometimes mind-boggling ☺. If you enjoy competition, that is a plus.

Two three-person teams will be selected from this class to represent ISU at the ACM Regional Programming Contest in November, 2006.

Admission is by permission of the instructor only. You may find an application at http://www.itk.ilstu.edu/FACULTY/individual_pages/mgoodwin.htm. Send the completed copy of the application to Mrs. Goodwin: mmgoodw@ilstu.edu. Alternatively, you may pick up a printed copy of the application in the ITK office, 202 Old Union, fill it out, and turn it back in to the ITK office.

Offered:

MW 2:00-3:15 PM

Instructor:

Mary Goodwin

Prerequisite:

“C” or better in ITK 279 or concurrent registration