IST 256
APPLICATIONS PROGRAMMING FOR INFORMATION SYSTEMS
Spring 2014

Class Sessions: Tuesday, Thursday   Hinds 027 (iTell Lab)
                           11:00 am – 12:20 pm

Instructor: Nancy McCracken   Office: 322 Hinds Hall
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                           443-3955 (office)   Office Hours: TBA

Course Description:

This course will teach the critical thinking skills needed for students to design and work with information systems. Design of information systems will be taught by a problem-solving approach that will emphasize how to look at a problem as something that can be solved computationally. The ideas of this approach will be achieved by implementing the designs in a structured programming language: covering basic programming control constructs, user interfaces and object-oriented design. The information system applications will typically include small examples of transaction processing, business information systems and e-commerce. A broader context of programming will also be described in the role of programming languages in the Information Technology organization.

Learning Outcomes:

At the end of the course you should be able to
1. Use critical thinking to design solutions to problems in information system applications.
2. Design simple user interfaces that are easily understood and used.
3. Write efficient and elegant computer programs that can be easily understood by a knowledgeable person.
4. Have a good understanding of the main ideas of programming control constructs, modularization and data representation using an object-oriented approach.
5. Understand how information is stored and manipulated in examples of information system applications.

Course Delivery:

The course will include a combination of lecture, design (thought) exercises, programming exercises, quizzes, homework assignments and projects, and exams. The programming language used will be Java through the NetBeans programming environment. A weekly schedule, including exam and assignment due dates, will be

placed in the Learning Management System (Blackboard).

Coursework and Grading (Tentative):

Weekly Labs, Quizzes and Participation	20%
Homework Assignments and Final Project	40%
Two in-class Exams and Final Exam	40%

Textbook:

There is no required textbook. Handouts describing the programming language will be placed in the iLMS along with links to supporting on-line materials, and all material will be covered in class.

Academic Integrity

Syracuse University's Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the policy and know that it is their responsibility to learn about course-specific expectations, as well as about university policy. The university policy governs appropriate citation and use of sources, the integrity of work submitted in exams and assignments, and the veracity of signatures on attendance sheets and other verification of participation in class activities. The policy also prohibits students from submitting the same written work in more than one class without receiving written authorization in advance from both instructors. The presumptive penalty for a first offense by an undergraduate student is course failure, accompanied by a transcript notation indicating that the failure resulted from a violation of Academic Integrity Policy. The standard sanction for a first offense by a graduate student is suspension or expulsion.

For more information and the complete policy, see http://academicintegrity.syr.edu

Disability-Related Accommodations

If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), http://disabilityservices.syr.edu, located at 804 University Avenue, room 309, or call 315-443-4498 for an appointment to discuss your needs and the process for requesting accommodations. ODS is responsible for coordinating disability-related accommodations and will issue students with documented disabilities "Accommodation Authorization Letters," as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible.

Religious Observances Policy

SU religious observances policy, found at http://supolicies.syr.edu/emp_ben/religious_observance.htm, recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the

policy, students are provided an opportunity to make up any examination, study, or work requirements that may be missed due to are religious observance provided they notify their instructors before the end of the second week of classes. For fall and spring semesters, an online notification process is available through **MySlice/StudentServices/Enrollment/MyReligiousObservances** from the first day of class until the end of the second week of class.

Educational Use of Student Work:

I intend to use academic work that you complete this semester in subsequent semesters for educational purposes. Before using your work for that purpose, I will either get your written permission or render the work anonymous by removing all your personal identification.