

IST 256
APPLICATIONS PROGRAMMING FOR INFORMATION SYSTEMS
SPRING 2009

Class Session: Monday, Wednesday
12:45 – 2:10
No Friday class
Hinds 010 (iLab)
Class sessions will include both lectures and labs.

Instructor: Dr. Nancy McCracken
njm@ecs.syr.edu
Office: 209 Hinds Hall

Phone: 443-3955 (office)
Office Hours: 10:00-12:00
Monday

Teaching Assistant: Mike Shenouda

Course Description:

This course is designed as an introduction (no programming experience assumed) to the fundamentals of object oriented computer programming using a high level language. Upon completion of the course you will be able to write programs for your own future needs. Furthermore, this course will serve as a foundation from which you can explore other programming languages.

Learning Outcomes:

At the end of the course you should be able to

1. Design a user interface that is easily understood and used.
2. Write efficient and elegant computer programs that can be easily understood by a knowledgeable person.
3. Explain the three structures of structured programming and use them to solve complex problems.
4. Be able to efficiently manipulate constants, simple variables, arrays, and records.
5. Program a computer to perform simple mathematical functions, string processing, and manipulate input and output files.

Coursework and Grading:

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|------------------------|-----|
| Weekly Lab Assignments | 20% |
| Homework Assignments | 35% |
| Exams I and II | 30% |
| Final Exam | 15% |

Textbook:

There is no required textbook. Handouts describing the programming language Visual Basic will be placed in the Learning Management System (iLMS).

Attendance:

Attendance in all class sessions is expected. If you are absent, make arrangements with someone in the class to obtain class notes and materials. Illnesses and other emergencies will be excused with appropriate documentation.

Homework Policy:

Each weekly lab sheet is due at the end of the week and can be submitted at the end of lab on Wednesday or in the instructor's mailbox by noon Friday. There will be 13 weekly lab assignments and 3 of these will be dropped/excused with no penalty.

Homework will be due at the start of class the day the assignment is due. If you cannot attend class on the day homework is due or wish to submit it early, give it to a staff member in 114 Hinds Hall. They will time and date stamp it.

Academic Integrity

The academic community of Syracuse University and of the School of Information Studies requires the highest standards of professional ethics and personal integrity from all members of the community. Violations of these standards are violations of a mutual obligation characterized by trust, honesty, and personal honor. As a community, we commit ourselves to standards of academic conduct, impose sanctions against those who violate these standards, and keep appropriate records of violations.

The academic integrity statement can be found at:
http://supolicies.syr.edu/ethics/acad_integrity.htm

Student with Disabilities

In compliance with section 504 of the Americans with Disabilities Act (ADA), Syracuse University is committed to ensure that “no otherwise qualified individual with a disability...shall, solely by reason of disability, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity...” If you feel that you are a student who may need academic accommodations due to a disability, you should immediately register with the Office of Disability Services (ODS) at 804 University Avenue, Room 308 3rd Floor, 315.443.4498 or 315.443.1371 (TTD only). ODS is the Syracuse University office that authorizes special accommodations for students with disabilities.

Tentative Course Outline

| Date | Topic | Coursework Due Dates |
|-------------|---|----------------------|
| Jan 12 - 14 | Introduction to Visual Basic, Properties and Events | |
| Jan 19 | <i>No Class – Martin Luther King Day</i> | |
| Jan 21 | Variables, Constants, Assignments | |
| Jan 26 - 28 | Input, Output and Simple Branching | |
| Feb 2 - 4 | Simple Loops and Predefined Functions | |
| Feb 9 - 11 | Multiple Forms , Select Case | Assignment #1 (Mon.) |

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| Feb 16 - 18 | Procedures | EXAM 1 | (Wed.) |
| Feb 23 - 25 | Procedure Parameters, Nested Branching | | |
| Mar 2 - 4 | Modules and Functions | Assignment #2, Part 1 | (Mon.) |
| Mar 9 - 11 | <i>No Class - Spring Break</i> | | |
| Mar 16 - 18 | Reading and Writing Files | | |
| Mar 23 - 25 | String Manipulation, Arrays | Assignment #2, Part 2 | (Mon) |
| Mar 30 – Apr 1 | Arrays and Multidimensional Arrays | | |
| Apr 6 - 8 | Records | EXAM 2 | (Mon) |
| Apr 13 - 15 | Records and Hierarchical Records | | |
| Apr 20 - 22 | Searching and Sorting, | Assignment #3 | (Mon) |
| Apr 27 | Databases and Wrapup | | |

Monday, May 4, 2:45 – 4:45 pm

Assignment #4 due