

MISY 3350

Business Application Development

SPRING 2012

Section 001 – 7:00PM - 09:30PM – M – OCNR 240

INSTRUCTOR: Robert Cutshall, Ph.D. **OFFICE HOURS:** 2:30pm – 3:15pm – M & W
OFFICE: 347 OCNR 5:00pm – 6:50pm – M & W
OFFICE PHONE: 825-2665 5:30pm – 6:30pm – T
e-mail: robert.cutshall@tamucc.edu (and by appointment)
course website: <http://faculty.tamucc.edu/rcutshall/vb.html>

COURSE DESCRIPTION:

This course provides an understanding of the Visual Basic programming environment in the context of business application design and development. This course will place emphasis on performance characteristics and user interface design considerations.

COURSE PREREQUISITES:

Prerequisite: Junior standing or above

REQUIRED TEXT:

Programming with Microsoft Visual Basic 2010 – Fifth Edition, Zak, Course Technology, 2012 (ISBN: 1111529434)

You will also need two (2) USB Flash Drives for saving student data files and saving your programming assignments. CD-RWs may be used in place of the USB Flash Drives.

DATA RECOVERY:

You are strongly urged to use additional storage media (USB flash drives, or CD-RWs) to back-up your programming work. The question is never if you will lose data. The question is **WHEN** will you lose data. There are many events that can lead to the loss of data so always have a back-up copy stored in a safe place. Loss of data is **NOT** an acceptable excuse for not turning-in a programming assignment.

COURSE OBJECTIVES:

1. You will understand the visual programming environment.
2. You will understand computer-programming terminology.
3. You will be able to develop Visual Basic programs that can be used by others.
4. You will understand how to approach and begin developing Visual Basic programs to solve business information needs.

EXPECTATIONS OF STUDENTS:

1. You are EXPECTED to have read the material BEFORE it is covered in class.
2. You are responsible for all material presented in lecture and assigned readings.
3. You are responsible for turning in all assignments on time.
4. You are responsible for staying informed of assignments, meeting locations, and any changes to the syllabus announced during class time.
5. You are responsible for doing everything necessary to learn the material.
6. You are responsible for knowing and abiding by the rules and policies outlined in this syllabus.

INSTRUCTIONAL METHODOLOGY:

Scheduled class time will be used for group collaboration, lectures, student presentations, discussions and student activities. You are encouraged to ask questions and to participate in class discussions. In addition, you are encouraged to pay attention to local, national, and international media coverage (printed as well as audio-visual media) on information systems topics.

EXAMS:

Your performance will be evaluated, in part, on two (2) examinations. The exam formats will generally be multiple choice, and/or short answer essay. **Scantron forms will be needed for all examinations.** Lectures, readings, class activities, and case problems will be the basis of these exams. All course material is fair game for exam question – all assigned readings whether discussed in class or not and all material presented in lectures whether covered in assigned readings or not. **You should KEEP all of your graded exam forms until the final grades have been posted.**

MAKEUP EXAMS:

Exams are not to be missed for the convenience of the student. You are expected to schedule other activities around the class exam dates. If a major exam is missed due to an excused absence, a make-up exam will be administered at a time and place agreed upon by the student and instructor. In general, make-up exams will be administered within one week of the date of the original exam. Any exam or class activity missed without a pre-approved excuse will be assigned a grade of **ZERO**.

PROGRAMMING ASSIGNMENTS:

It is your responsibility to determine that your program produces the correct output prior to submitting the program for grading. It is also your responsibility to make sure that your disk/program is virus free. Any disk/program received that has a virus on/in it will be returned to you with a grade of zero (0). When naming your Visual Basic projects, use the files names provided to you in the assignments.

The following items will be checked when grading the programming assignments: (1) the program generates the correct output; (2) the GUI design (i.e., grouping of similar controls, logical order, etc.); (3) the program contains the appropriate code (i.e., the code is documented and there are not excess amounts of code); and (4) the objects are given appropriate names.

The disk that you turn-in should be labeled with your name, the date, the exercise numbers, and the page numbers. For example the disk label for an assignment should look like the following:

Student Name
September 28, 2010
Exercise 5 – p. 85

Only the files associated with the assignment should be on the disk that you turn-in for grading purposes. There are several files that may be part of your project so you should be aware of the files that you use and make sure that they are all included on your assignment disk.

If you plan not to attend class on the date an assignment is due, it is your responsibility to turn in all parts of the assignment **BEFORE** the due date. **LATE WORK WILL NOT BE ACCEPTED! NO EXCEPTIONS!**

IN-CLASS PROGRAMMING ASSIGNMENTS:

This is a hands-on programming class. The best way to learn Visual Basic programming is to create applications using the Visual Basic development environment. In addition, having access to peers to discuss programming issues is also important (in other words, **attendance is required; 10 points will be deducted from your grade for each unexcused/undocumented absence**). Thus, the majority of each class meeting will be spent using the Visual Basic development environment. The class schedule contained in this syllabus lists the in-class assignments that you will be responsible for during the course of the semester.

GRADING:

Your grade in this course will be based on your performance on three (3) exams, 12 lessons A, B, & C from each chapter, and 26 programming assignments (Exercises, Discovery, Swat the Bugs). PERCENTAGES ARE **NOT** USED IN GRADING IN THIS COURSE. IF YOU WANT A PARTICULAR LETTER GRADE YOU **MUST EARN THE MINIMUM NUMBER OF POINTS FOR THAT LETTER GRADE**. For example, for a letter grade of “A” you **must** earn at least 1125 points (in other words 1124 points IS NOT an “A”, 1124 points IS a letter grade of “B”). The distribution of points per assignment and the tentative grading scale are as follows:

| | |
|---|-------------|
| Exams (3 at 100 points each) | 300 points |
| Programming Assignments (Exercises, Discovery, Swat the Bugs) (10 graded at 50 points each) | 500 |
| Lessons A, B & C from each chapter (12 at 25 points each chapter) | 300 |
| Attendance | <u>150</u> |
| Total points | 1250 points |

The tentative grading scale is as follows:

| <u>Grade</u> | <u>Points</u> |
|--------------|---------------|
| A | 1125-1250 |
| B | 1000-1124 |
| C | 875-999 |
| D | 750-874 |
| F | below 750 |

ATTENDANCE POLICY:

Regular and punctual attendance for the **full** period of each class is expected. Unexcused absences **WILL** adversely affect your grade. Attendance of all classes is expected and attendance will be checked from time to time. Should you miss a class, you are responsible for all material covered, including announcements and handouts. Any suggestions you have on how to provide the class a better learning experience are always welcome.

ETHICAL PERSPECTIVES:

The ethical perspective of programming will be discussed.

GLOBAL PERSPECTIVE:

Aspects of outsourcing programming systems around the globe will be discussed

DEMOGRAPHIC DIVERSITY PERSPECTIVES:

Issues about various decision-making styles and the available computerized support will be discussed.

POLITICAL, SOCIAL, LEGAL, REGULATORY AND ENVIRONMENTAL PERSPECTIVES:

The social impact of programming systems will be discussed.

COB CODE OF ETHICS:

This course, and all other courses offered by the College of Business (COB), requires all of its students to abide by the COB Student Code of Ethics (available online at www.cob.tamucc.edu) Provisions and stipulations in the code are applicable to all students taking College of Business courses regardless of whether or not they are pursuing a degree awarded by the COB. Any

and all violations of the COB Code of Ethics **WILL** result in an incident report being filed with the COB Dean and the VP of Student Affairs. In addition, a grade of zero (0) for the assignment will be recorded and/or a grade of zero (0) for the ENTIRE ORMS 3310 course will be recorded. **NO EXCEPTIONS!**

AMERICANS WITH DISABILITIES ACT COMPLIANCE:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services Office at 361.825.5816 or visit the office in Driftwood 101.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

GRADE APPEALS

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamucc.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

INSTRUCTOR STATEMENT:

It is my intention to devote the time, effort, and resources to properly instruct each student, and the class as a whole, in the course subject matter and industrial applications in general. I encourage you to devote the time and effort necessary to succeed in this course. The material in this course **IS** cumulative. Hence, you should strive to keep up with the material and not fall behind.

I encourage you to attend class and participate in all aspects of the learning process.

Best wishes for your success in the class.

CLASS SCHEDULE:

The following class schedule has been prepared to serve as a guide for the semester. Adjustments may be made to this schedule as necessary. Examinations will cover all material indicated on the assignments below (regardless of whether or not it was discussed in class) in addition to any material covered in class lectures.

TENTATIVE CLASS SCHEDULE*

| <i>M Date Week:</i> | <i>Reading Assignments and Lessons</i> | <i>Chapter</i> | <i>Assignments</i> |
|-----------------------------|--|---------------------|--|
| 2 (Jan 16, M) | **** MLK Day **** | NO CLASS | |
| 3 (Jan 23, M) | Introduction to Programming Introduction to VB 2010 | Ch. 1 | Lessons A, B and C |
| 4 (Jan 30, M) | Designing Applications | Ch. 2 | Exercise # 5 p. 113 Discovery # 12 p. 116 |

| | | | |
|---|---|--------|--|
| | | | Swat The Bugs # 13 p. 117 |
| 5 (Feb 06, M) | Using Variables and Constants | Ch. 3 | Exercise # 6 p. 174 Discovery # 10 p. 177 |
| 6 (Feb 13, M) | The Selection Structure | Ch. 4 | Exercise # 1 p. 245 Exercise # 7 p. 258 Swat The Bugs # 11 p. 260 |
| 7 (Feb 20, M) | ***** EXAM 1 ***** More on the Selection Structure | Ch. 5 | Chapters 1 - 4 Exercise # 2 p. 309 Exercise # 4 p. 310 Exercise # 6 p. 322 |
| 8 (Feb 27, M) | The Repetition Structure | Ch. 6 | Exercise # 9 p. 390 Discovery # 11 p. 392 |
| 9 (Mar 05, M) | Sub and Function Procedures | Ch. 7 | Exercise # 3 p. 425 Exercise # 5 p. 444 Swat The Bugs # 6 p. 445 |
| 10 (Mar 12 – 16) | **** SPRING BREAK **** | | |
| 11 (Mar 19, M) | String Manipulation | Ch. 8 | Exercise # 1 p. 497 Swat The Bugs # 12 p. 501 |
| 12 (Mar 26, M) | ***** EXAM 2 ***** | ***** | Chapters 5 - 8 |
| 13 (Apr 02, M) | Arrays | Ch. 9 | Exercise # 10 p. 535 Exercise # 2 p. 543 |
| 14 (Apr 09, M) | Structures and Sequential Access Files | Ch. 10 | Exercise # 7 p. 578 Exercise # 1 p. 611 |
| 15 (Apr 16, M) | Classes and Objects | Ch. 11 | Exercise # 10 p. 650 Swat The Bugs # 3 p. 680 |
| 16(Apr 23, M) | Web Applications | Ch. 12 | Exercise # 1 p. 736 Exercise # 6 p. 739 |
| 17 (Apr 30, M) | Working with Access Databases | Ch. 13 | Lessons A, B and C |
| 18 (May 07, M) 7:15pm – 9:45pm NOTE: DIFFERENT MEETING TIME | ***** EXAM 3 ***** | | Chapters 9 - 13 |

*This is our plan and is *subject to change* given notice by your instructor.

STATEMENT OF UNDERSTANDING OF THE REQUIREMENTS OF MISY 3350.001

I have read the above syllabus and agree to abide by the class policies and procedures set forth therein.

I understand that I must earn at least the minimum required number of points listed in the syllabus to achieve my desired letter grade.

I understand that I must inform the instructor ahead of time and provide written documentation if I have to miss a scheduled exam for university related business.

I understand that points will be deducted from my course grade for all unexcused/undocumented absences.

I also understand that I must make-up a missed exam within one (1) week of the original exam date.

I understand that academic dishonesty will not be tolerated in this course.

I understand that I am responsible for asking for any necessary clarification to the requirements listed in the course syllabus.

I understand **ALL** of the other written requirements in this syllabus for this course that have not been reiterated on this page.

I understand that I must sign/date this page and return this page to the instructor within one (1) week of receipt of the syllabus.

Signed this the _____ day of _____, 2012.

Print your name: _____

Signature: _____