



Fall 2009
Mark Reynolds

Combined Syllabus for
ITSE 1491 - Intro to C# Programming / COSC 1420 – "C" Language
ITSE 1492 – Special Topics in Computer Programming: Advanced C#
ITSE 2472 Web Application Development
Computer Science Department
Business and Social Science Division

Note: this combined syllabus is used for four distance courses. The assignments and expectations are different. But the course design, grading, and due dates are the same. These courses are designed for busy students and professionals – the course is designed to fit the lifestyles of these students.

Instructor Information and College Contacts

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Please use the mail program built into Angel for communication.

There are several options for contacting me:

- College Email at mark.e.reynolds@lonestar.edu may be used for private (personal and performance) communications. I will reply to you within 2 business day(s) (normally same day or next morning)
- Angel Discussion Forums for assignment questions (this will benefit all students). If you ask an assignment question, I may direct you to post the questions in the discussion forum.
- In the rare, true emergency, use the Houston business line: 832-364-6778.
- General questions (I can't make my program run) should be sent first via instant messenger - MSN at mreynolds@intentdriven.com (not a valid email) or Yahoo at intentdriven. On-line assistance will be provided via LogMeIn.com. The student will be instructed to go to LogMeIn123.com and enter the 6 digit access code.

Questions / Printouts may be faxed to 832-364-6779. The machine is 4 feet from my desk so cover pages are not required, but be sure that the fax is clearly identified *with your name and the specific question.*

Course Information (all courses 4 college credit hours)

ITSE 1491 – Introduction to C# Programming

C# is a modern, object-oriented language that enables programmers to quickly build a wide range of applications for the Microsoft.NET environment. This course is a study of the design, coding, testing and documentation of computer programs using a current, personal computer C# compiler. All C# statements and operators are covered in lecture and used within practice programs and program assignments. This is a review of basic logic concepts and various advanced logic concepts (selection logic and array) are mastered.

Learning Outcomes:

- Code instruction in C# using appropriate statements, variables and syntax
- Incorporate array processing into program solutions
- Identify and correct syntax and logic errors
- Pass data functions by value and reference
- Create programs using classes and objects

COSC 1420 – "C" Language

Introduction to computer programming. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. This course is recommended for four-year transfer students.

Learning Outcomes:

- Code instructions in C/C++ using appropriate statements, variables and syntax.
- Incorporate pointer and array processing into program solutions.
- Identify and correct syntax and logic errors.
- Pass data to functions by value, by pointer, and by reference.
- Create programs using classes and objects.

[we will be using C#, not C or C++ in this class. The last assignment will bridge this gap.]

ITSE 1492 – Special Topics in Computer Programming: Advanced C#

Topics address recently identified current events, skills, knowledge and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Further application of C# programming techniques including subjects such as file access, abstract data structures, class inheritance and other advanced techniques.

Learning Outcomes:

- Develop correct, well-documented programs containing complex data structures
- Incorporate complex input/output file handling procedures
- Incorporate advanced C# language capabilities such as references, arrays, function and operator overloading, and exception handling
- Implement Object Oriented features of C# including classes, inheritance, polymorphism, etc. for more code reuse and better design
- Utilize the framework of dot net for developing applications in specific areas

ITSE 2472 Web Application Development

Build dynamic interactive web sites utilizing web application development tools. Focus is on design techniques, execution of web programs, and implementation of credit card authorization techniques.

Learning Outcomes:

- Apply the basic of application design.
- Interact with e-mail, web, and LDAP servers.
- Schedule the automatic execution of web programs.
- Implement advanced security
- Interface with databases using web development tools.
- Use SQL for advanced dynamic database interaction.
- Utilize real-time credit verification and authorization.
- Employ session state management.

Special note concerning ITSE 1491 and COSC 1420

ITSE 1491 and COSC 1420 are “linked” courses – they are the same course with the same content and expectations. Students intending to advance to a 4-year degree may find COSC 1420 a better option – talk to you college counselor for further information.

Course Delivery

These are *Distance Education* based courses. No classroom time is required but some may become available throughout the semester. Student support and assistance is provided via Yahoo and Microsoft Instant Messenger and via LogMeIn.com (a professional remote access application).

Evaluations and Assignments

Assignments

- 10 Unit Projects @ 100 pts each
 - unit projects consists of 90pt lab and 10pt online quiz
- 2 Semester Papers (2-3 pages each) @ 50 pts each
- 1 Final Exam @ 100 pts
- 1 extra credit assignment @ 50 points

Specific assignments for each class, for each unit will be provided in Angel.

You are responsible for keeping up with verifying your grades. Do NOT throw away papers until after the final grade is received.

The semester papers require the attendance at two www.nhdnug.org user groups (or arranged alternate). A short paper describing the technology / techniques learned must be submitted. This group meets every 3rd Thursday at the college. You may attend the Houston group, the online groups offered through Second Life or Reaction Grid, or you may request other alternate arrangements (i.e. company sponsored forums).

Special requirement for the introductory C# classes (ITSE 1491 and COSC 1420). Unit #11 (C++) must be passed with a grade of 70 or better (including online quiz) to pass the course. If unit 11 is not passed with a grade of 70 or better, the student will fail the course. There is no similar requirement for ITSE 1492 or ITSE 2472.

Letter Grade Assignment

Final letter grades will be assigned in the following manner:

1100 and up	A	
1000 - 1099	B	
900 - 999	C	
800 - 899	D	<i>Passing requires 800 of 1200.</i>

Required Materials

All Sections

Required: Visual Studio 2008 (free to students).

Refactoring program such as "Refactor" - Required for 1492 and 2472; strongly recommended for the introductory C# course.

Visual C# 2008: The Base Class Library (or Visual C# 2005: The Base Class Library), Francesco Balena, Microsoft Press

ITSE 1491 – Introduction to C# Programming

COSC 1420 – “C” Language

Core C# and .NET: The Complete and Comprehensive Developer's Guide to C# 2.0 and .NET 2.0. Stephen C. Perry, ISBN: 9780131472273, Publisher: Prentice Hall, Copyright: 2006

ITSE 1492 – Special Topics in Computer Programming: Advanced C#

Core C# and .NET: The Complete and Comprehensive Developer's Guide to C# 2.0 and .NET 2.0. Stephen C. Perry, ISBN: 9780131472273, Publisher: Prentice Hall, Copyright: 2006

www.Telerik.Com software tools (do not download until instructed)

ITSE 2472 Web Application Development

AJAX Web host - provided

Book - Internet and World Wide Web by Deitel 978-0-13-175242-9

Downloads - VStudio 2008, MVC and AJAX toolkit (please wait for my instructions on MVC and AJAX)

Supplemental / optional: VisiBone Browserbook -
<http://www.visibone.com/products/browserbook.html>

Note: there will be several strongly recommended web-based supplemental documents. I use Office Depot and FedEx-Kinkos to print and bind these documents for long term use. Students are encouraged to do the same.

General Expectations

Online Support

We uses Yahoo and MSN Instant Messenger to enable rapid response to student questions. www.LogMeInRescue.com is used for remote connection and support.

LogMeInRescue is used to support clients world-wide. I have used this tool hundreds of times and his company pays over \$100/month for this tool. To date, no adverse effects have occurred during any support sessions. Nevertheless, you are personally responsible for back-ups and the tools necessary to restore your system should the unthinkable happen. (I use www.IBackup.com)

Intent Driven Designs

Intent Driven Designs, LLC. is my company. Intent Driven is furnishing a full-featured .NET 3.5 web host and SQL host for use by the Web Development class.

If you manage to get outside of your area, you are expected to report it. Violation of this rule will result in receiving an "F" for the course. Reason is simple – a private company is providing resources to the college with one proviso – do no harm and report and security holes stumbled upon.

Classroom Behavior

Professional, business normal communications are required. Vulgarities, innuendo, insolent, disrespectful attitudes will not be tolerated.

The Lone Star College Catalog [Student Conduct, Section 562.01d] states, "Disruptive activity that hinders other students' learning or deters an instructor from effective teaching will not be tolerated under any circumstances."

Withdrawal Policy

If you need to withdraw from the course, you are responsible for initiating the paperwork in a timely manner. Failure to drop a class will result in the student receiving a grade of "F". Check the college website to determine the last date that you may drop a class and receive a "W".

Please do your instructors a favor—let us know when you drop.

Syllabus Change

While every attempt has been made to prepare this syllabus and class schedule in final form, it will be the instructor's prerogative to make any changes as may be deemed necessary in order to meet the learning outcomes of the course. The latest, updated syllabus may be found online in Angel.

Certificate/Degree Plan

Degree plans for programs offered at Montgomery College can be located in the Lone Star College catalog or on the Montgomery College website at: <http://montgomery.lonestar.edu>.

Academic Integrity

In the event of cheating or plagiarism, you may receive an 'F' for the assignment and/or an "F" in the course. For the college policy on cheating and plagiarism please see the student handbook on the college website at: <http://montgomery.lonestar.edu>.

Software Piracy

Law strictly prohibits unauthorized copying of software purchased by Montgomery College for use in laboratories. *Montgomery College* administration will take appropriate disciplinary action against anyone violating copyright laws.

Computer Virus Protection

Computer viruses are, unfortunately, a fact of life. Using the diskettes on more than one computer creates the possibility of infecting computers and diskettes with a computer virus. This exposes the computers of the campus, your personal computer, and any others you may be using to potentially damaging viruses. The campus has aggressive anti-virus procedures in place to protect its computers, but cannot guarantee that a virus might not temporarily infect one of its machines. It is your responsibility to protect all computers under your control and use and ensure that each diskette you use, whenever or wherever you use it, has been scanned with anti-virus software. Since new viruses arise continually, your anti-virus software must be kept current. And, since no anti-virus software will find every virus, keeping copies of data (backups) is extremely important.

Equal Opportunity Statement

See Lone Star College catalog or go to <http://www.lonestar.edu>

ADA Statement

See Lone Star College catalog or go to <http://www.lonestar.edu>

Advising

For additional assistance or more information on degree plans or future courses that Montgomery College may offer, please contact one of the counselors.