COURSE TITLE BLACKBOARD SITE	MCS 1142 Introduction to C Spring 2012 – http://my.ltu.edu and select CRN 3825
INSTRUCTOR	Dr. Ghassan Azar Director, Computer Science Programs College Professor Department of Math and Computer Science gazar@ltu.edu (248) 204-3659 Office hours on Wimba TBA
SCHEDULE	Semester starts 1/16/2012 and end 5/12/2012 See http://www.ltu.edu/registrars_office/calendar_final_exam.index.asp for LTU academic calendar information.
LEVEL/ HOURS PREREQUISITE	Undergraduate 2 credit hours (Computer Place Assessment 34 or Undergraduate level MCS 1003 Minimum Grade of D-) and (Undergraduate level MCS 0074 Minimum Grade of D- or Undergraduate level MCS 0083 Minimum Grade of D- or Undergraduate level MCS 1214 Minimum Grade of D- or Algebra Placement Assessment 21 or ACT Math 25 or AP Calculus AB 03 or AP Calculus BC 03 or AP Calc AB Subgrade 03)
REQUIRED TEXT (See Blackboard for additional resources)	A Structured Programming Approach Using C By Behrouz A Forouzan & Richard F. Gilberg Third edition ISBN-13: 978-0-534-49132-1 ISBN-0-534-49132-4 Available for online purchase through LTU Bookstore at: http://lawrence-tech1.bkstore.com/bkstore/TextbookSelection.do?st=489
ADDITIONAL RESOURCES	LTU Online student resources: http://www.ltu.edu/ltuonline/
TECHNICAL SUPPORT	Technical support for using Blackboard is provided by the Helpdesk, 248.204.2330 or helpdesk@ltu.edu

Description of Course:
Learning basic principles of programming as outlined in the ACM curriculum for CS classes and learns the basic constructs of C language.

Specific topic coverage includes: Introduction to Computers, Introduction to the C Language, Structure of a C program, Functions, Selection - Making Decisions, Repetition ("Looping"), and Arrays.

COURSE SCHEDULE FOR TRADITIONAL SEMESTER COURSES

This fully online course begins with a partial week online course orientation period to familiarize yourself with the online learning environment and to meet online or via the phone with your instructor. Each subsequent week starts on a Monday and ends on a Sunday.

Dates	Modules	Topics / Readings	Assignments Due
Prior to Semester Start	Module 0	Overview of textbook Online Learning Orientation Course Orientation and group formation	Course orientation Instructor conversation
Week of Jan 16 - 20	Module 1	Chapter 1	Bb Discussion Board
Week of Jan 23 - 27	Module 2	Chapter 1	Bb Discussion Board
Week of Jan 30 – Feb 3	Module 3	Chapter 2	Bb Discussion Board
Week of Feb 6 - 10	Module 4	Chapter 2 – Project 1 assigned	Bb Discussion Board
Week of Feb 13 –17	Module 5	Chapter 3	Bb Discussion Board
Week of Feb 20 - 24	Module 6	Chapter 3 - Project 2 assigned	Bb Discussion Board
Week of Feb 27 – Mar 2	Module 7	Chapter 4	Bb Discussion Board Project 1 is due
Week of Mar 5 - 9	Module 8	Chapter 4 - Project 3 assigned	Bb Discussion Board
Week of Mar 19 - 23	Module 9	Midterm Exam and Chapter 5	Bb Discussion Board Project 2 is due
Week of Mar 26 - 30	Module 10	Chapter 5 - Project 1 assigned	Bb Discussion Board
Week of Apr 2 - 6	Module 11	Chapter 5	Bb Discussion Board
Week of Apr 9 -13	Module 12	Chapter 5	Bb Discussion Board Project 3 is due

Dates	Modules	Topics / Readings	Assignments Due
Week of Apr 16 - 20	Module 13	Chapter 6 ***Light Week – Thanksgiving Break***	Bb Discussion Board
Week of Apr 23 - 27	Module 14	Chapter 6	Bb Discussion Board Project 4 is due
Week of Apr 30 – May 4	Module 15	Chapter 6 and Final Review	Bb Discussion Board

STUDENT EVALUATION

The course has ten homework assignments, blackboard participation, 5 quizzes, 4 projects, mid-term and final exams totaling 1900 points. Letter grades are awarded based on the total number of points achieved. Points are deducted for late assignments.
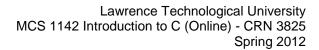
Course Grading:

	Percent
Homework, quizzes	**10%**
Blackboard communication	**10%**
Projects	**20%**
Mid-term Exam	**20%**
Final Exam	**40%**
Total Possible points	**100%**
	96% = A

Class Points	Letter Grade
96 and above	A
90 – 95	A-
87 – 89	B+
83 – 86	B
80 – 82	B-
77 – 79	C+
73 – 76	C
70 – 72	C-
67 - 69	D+
63 – 66	D
60 - 62	D-
60 and below	F

Key to Success:
- **Have a positive attitude about learning and the class.**

- **Attend all class sessions and be punctual.**
- **Read the textbook and work the exercises. Check your answers.**
- **Complete and turn your assignments on time.**
- **DO YOUR OWN WORK. Work with your "study buddy." Ask for help when needed**
- **Don't expect to understand every topic the first time it is presented; review often; spend as much time as necessary to master the material.**

EDUCATIONAL GOALS

General Objectives:
- To provide the basic foundation of program design.
- To introduce C programming language
- To code and run programs in C.

STUDENT LEARNING OBJECTIVES / OUTCOMES
- There will be 15 modules.
- Program design and Examples will be demonstrated in class.
- Students will have homework and lab assignments to be done outside class.
- Students will be involved in the classroom by questioning to stimulate thought, interest and reinforce previous points.
- Whenever possible students will discuss each other's programs and suggest ways for improving these programs. Each programming assignment must be done by **ONE** student only with **NO** outside help. A zero will be given for work not completed by the student.

Academic Integrity:
Per the academic honor code, students are expected to conform to a high standard of honesty and integrity in this course. Copying someone else's work or any other form of **cheating** is **strictly prohibited**. Permitting or tolerating such behavior is also prohibited. The minimum penalty for any offense is a 0 on that assignment. The culprits may be subject to additional sanctions, up to and including expulsion from school for serious offenses.

PREREQUISITE SKILLS
(Computer Place Assessment 34 or Undergraduate level MCS 1003 Minimum Grade of D-) and (Undergraduate level MCS 0074 Minimum Grade of D- or Undergraduate level MCS 0083 Minimum Grade of D- or Undergraduate level MCS 1214 Minimum Grade of D- or Algebra Placement Assessment 21 or ACT Math 25 or AP Calculus AB 03 or AP Calculus BC 03 or AP Calc AB Subgrade 03)

INSTRUCTIONAL METHODS AND COURSE ORGANIZATION

Blackboard Learning Environment – Blackboard at my.ltu.edu contains the syllabus, all assignments, reading materials, streaming videos, narrated PowerPoint mini-lectures, podcasts, written lecture notes, chapter quizzes, links to Web resources, and discussion forums. You will submit all assignments via Blackboard, and are expected to participate regularly in discussion topics. Please take time to familiarize

yourself with the organization of the Blackboard site. You will want to check the site frequently for announcements reminding you of new resources and upcoming assignments.

Student/Instructor Conversations – Students keep in touch with the instructor via e-mail messages, telephone conference calls, and IM conversations.

Self-Assessments – Pre- and post- self-assessment tools will help students measure their entering skills and progress during the course.

Required Reading – Textbook chapters should be read according to the schedule outlined in the syllabus. Chapters will be discussed online.

Publisher Web Site – Supplementary information for the course is available at **www.course.com**. The Web site contains class notes, PowerPoint slides, class announcements, the course syllabus, test dates, and other information for the course.

Assignments –

Several Homework assignments

Programming assignments for the Course:

Assignment	Assigned on	Collected on
(1)	02/17/2012	03/05/2012
(2)	03/02/2012	03/26/2012
(3)	03/23/2012	04/16/2012
(4)	04/06/2012	04/30/2012

Programs will be graded for scope, correctness, style, documentation, and timeliness. A program that "works" will not receive full credit unless it is well written, properly documented, and efficient in terms of memory space used and execution speed. Late projects will not receive full credit. Unless otherwise specified, projects turned in late will lose 5% per day late and will not be accepted after one week late..

CLASS POLICIES AND EXPECTATIONS

Students are expected to follow with each module on a regular basis and participate in the discussions. They are responsible for all the material presented therein. Formal participation records will be maintained. Participation is highly correlated with performance on the projects and the exams.

I plan to offer you a valuable learning experience, and expect us to work together to achieve this goal. Here are some general expectations regarding this course:

Each student has a LTU email account. If you wish to use a different email address for this course, please **change your email address in Blackboard under "Blackboard Tools", then "Personal Information"** and send an email to me so I can store your address in my email directory.

Readings, discussion forum participation, and written assignments must be completed according to the class schedule. It is important to contact the instructor as needed to discuss personal needs regarding course requirements and assignments.

It is essential that all students actively contribute to the course objectives through their experiences and working knowledge.

All assignments must be submitted on schedule, via Blackboard, and using Microsoft Office compatible software. If you need to submit an assignment via email, contact the instructor in advance.

Assignments must be completed to an adequate standard to obtain a passing grade. Requirements for each assignment are detailed in this syllabus.

Be prepared to log into Blackboard at least once each day. Please focus your online correspondence within the appropriate Blackboard discussion forums so that your colleagues can learn from you.

At midterm and at the end of the course, you will be invited to participate in a University evaluation of this course. Your feedback is important to the University, to LTU Online, and to me as an instructor, and I encourage you to participate in the evaluation process.

It is important for you as students to know what to expect from me as your instructor:
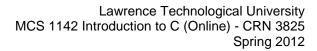- I will be available to you via e-mail and phone, and will promptly reply to your messages.
- I will be available to you for face-to-face appointments as requested.
- I will maintain the Blackboard web site with current materials, and will resolve any content-related problems promptly as they are reported to me.
- I will send out a weekly e-mail update to all class members to guide upcoming work and remind you of assignment due dates.
- I will return all assignments to you promptly, and will include individualized comments and suggestions with each assignment.
- I will hold our personal written or verbal communications in confidence. I will not post any of your assignments for viewing by the class without requesting your approval in advance.
- I will treat all members of the class fairly, and will do my best to accommodate individual learning styles and special needs.
- If any of these points need clarification, or when special circumstances arise that require my assistance, please contact me so that we can discuss the matter personally.

PRACTICAL GUIDELINES FOR CLASS LOAD EXPECTATIONS

A three-credit course generally requires <u>at least</u> nine hours per week of time commitment. Here are some practical guidelines to help schedule your time commitments for this online course:
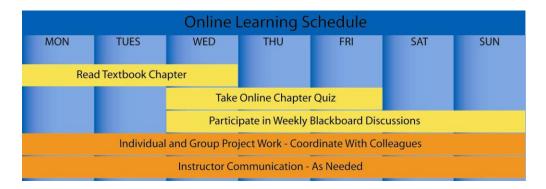
- A 14-week semester (the Summer semester is compressed into 10 weeks) would require at least 126 hours of time commitment to successfully complete all readings, activities, assignments, and texts as described in this syllabus.
- You should reserve at least 6 hours per week to read the required textbook chapters and resources, participate in online discussions, review presentation materials, and work through online quizzes. This effort will total at least 84 hours over the course of the semester.
- You should organize your remaining time to roughly correspond with the point value of each major assignment. This means that you should plan to spend <u>at least</u>:
  - 8-9 hours preparing your case study review;
  - 24-40 hours working with your group on the three parts of your semester-long project;
  - 8-9 hours working on the various components of your reflective consolidation (final exam).

These guidelines may not reflect the actual amount of outside time that you – as a unique individual with your own learning style – will need to complete the course requirements. The number of hours each week will vary based on assignment due dates, so please plan ahead to insure that you schedule your academic, work, and personal time effectively. The following graphic can be used to guide you in planning your weekly course work to remain on schedule:

Online Learning Schedule

MON	TUES	WED	THU	FRI	SAT	SUN

Read Textbook Chapter

Take Online Chapter Quiz

Participate in Weekly Blackboard Discussions

Individual and Group Project Work - Coordinate With Colleagues

Instructor Communication - As Needed

Quizzes and Online Participation (15 points)

Each student is expected to actively participate in online activities. Class participation is evaluated to a maximum of 20 points based on:

10 points – Homework and quizzes
5 points – Actively participating in Blackboard discussion forums, responding to questions posted by the instructor, and interacting positively with other students.

SYLLABUS ADDENDA

Please see the LTU Online "Current Students" web site http://www.ltu.edu/ltuonline/ for comprehensive information about Lawrence Tech's academic services, library services, student services, and academic integrity standards. The content of this web site is explicitly included as syllabus requirements.

The LTU Online "Current Students" web site also includes grading rubrics used by your instructor to evaluate written assignments, discussion forum participation, and group assignments. Please note that the SafeAssign anti-plagiarism product will be used for written assignments submitted for this course. Please see the instructions included on the LTU Online web site regarding the use of the SafeAssign product.