

Evaluation:

Your grade for the course will be based on the following approximate percentages:

- 70% Exams (3)
- 20% Programs (probably 4-8)
- 10% Current events (social, ethical, security issues in computers and technology)

Format for the exams will typically be approximately half coding (usually small sections of code such as functions, parts of functions, or how to call a function) and half analyzing the effects of executing code (for example, describing output, completing diagrams to show values assigned, etc.) or multiple-choice/true-false/short-essay questions about the behavior of the data structures being studied.

A **study guide** will be provided for each exam, listing topics to be covered (or omitted) and recommending selected problems from the text from which many of the exam questions will be derived. Answers for these problems are available for downloading from eCollege Doc Sharing.

The third exam will include an optional **makeup exam** with material from the first two exams. The makeup exam grade can be used to replace either of the first two exams. This makeup exam will be in multiple-choice, true/false, and short answer format with minimal coding required.

Letter grades for the course will be assigned according to this scale of percentage points:

90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D
0 - 59	F

You must earn an A on your own. Assuming that you have completed all assignments, lower borderline grades may be affected by factors such as:

- the class grade distribution
- your class attendance, participation, and behavior

You need to give me a reason to think you deserve a grade higher than your percentage indicates, and you need to show me that you've made every effort to help yourself (you're attending class and at least attempting programs).

Course Policies

Makeups:

If you miss an exam, the makeup exam will be used to replace the missing grade. If you know ahead of time that you have a problem with an exam time, let me know as soon as possible.

Attendance:

You are responsible for everything covered in all class meetings, whether you're in class or not.

You can earn **extra credit** for your class attendance at the rate of one-tenth of a percentage point for each complete class meeting attended. You must arrive on time and remain for the entire class. There are no exceptions for excused absences.

In order to be considered officially present for a class period, you must sign the roster sheet which will be passed around at the beginning of class. If you arrive late, it's your responsibility to sign the roster after class before you leave.

Drops:

If you are making an obvious effort in the course at the time you drop (still attending class, attempting program assignments), you may drop passing no matter what your actual grade might be. If you just disappear, your grade will be whatever you have actually earned at the end of the semester (usually a grade of F). If you find that you are unable to complete the course, please be sure to drop the course to avoid receiving an F; you will not be automatically dropped.

Details of **program requirements** will be provided in a separate handout **General Policy for Programming Assignments** (will be available in eCollege Doc Sharing).

eCollege:

This is a **web-enhanced** course (using some of the capabilities of eCollege but not set up as a self-directed online course).

You can access eCollege either directly or through your myLeo account.

1. To access eCollege through myLeo, log on to your myLeo account and click on **eCollege** in the bar in the upper right of the screen under the myLeo logo (there may be an additional link available in the menu on the left side of your screen). You can bypass the university's home page by going to **<http://online.tamu-commerce.edu>**

or To connect to eCollege directly, set your browser to go to **<http://online.tamuc.org/>** Enter your student id in the User Id box at the top of the screen where the cursor is blinking and enter your password in the Password box to the right of the User Id box (it's the same id and password that you use when logging in to your myLeo account). Click on **Sign In** .

As long as eCollege itself is up, you can connect to eCollege this way even when myLeo is down or the university's home page is inaccessible.

2. In eCollege click on the **MyCourses** tab (next to **Home**) in the upper left corner of the screen between the university logo and the date.

3. Scroll down to the bottom of the MyCourses screen and click on the class you want from the list of online and web-enhanced courses you may be taking this semester.

eCollege Announcements:

The course home page (the first page once you get into a specific course) contains an **Announcements** box. There is a file in the Announcements titled **What's Happening in Class** in which you will find information about each class meeting (what's due, what we did today, and for next time) in case you missed that class or forgot to write down an assignment. Click on an announcement name (or on the + sign to the left of the name) to open and view the file. The most recent class period will always be at the top of the file, but all previous class periods will remain in the file and can be viewed by scrolling down in the document.

Please be sure to check the eCollege Announcements frequently.

eCollege Document Sharing:

Input data files, sample programs, and most handouts can be downloaded from eCollege. All of these files can be found in the Document Sharing section. Click on **Doc Sharing** in the toolbar at the top of the screen. The files will be organized according to topic; files not associated with a particular chapter will be listed under the default category of the course name.

In the **Categories** box, click on the category (folder) you want. Then in the box below (title is the category selected), click on the name of the file to be downloaded. You're given the option of saving the file or opening it directly in its application program (most are Word 2003 files, so the document will be opened in Word) and then saving it if you wish to keep a copy of it.

Compilers:

All the computers in the Computer Science labs in Jour 101-102 and 200 have at least three C++ compilers installed: Microsoft Visual C++, Microsoft Visual C++ Express Edition (a more limited but somewhat easier-to-use version of Visual C++), and Bloodshed Dev C++. Any C++ compiler you may have access to is fine for programming assignments for this course. If you work on a Mac or in Linux, please hand in your program as a plain text file.

All of these compilers can be downloaded for free for installation on your own computer:

<p>DevC++ 4.9.9.2 (also called 5.0 Beta 9.2 – choose the first option in the list under Downloads). The filename is devcpp-4.9.9.2_setup.exe : http://www.bloodshed.net/dev/devcpp.html</p>
<p>Visual C++ Express Edition 2010: http://www.microsoft.com/express/vc/</p>
<p>Visual C++ Developer Center (links for how-to videos, tutorials, etc. in addition to downloading): http://msdn.microsoft.com/en-us/visualc/default.aspx</p>
<p>The entire Visual Studio (of which Visual C++ and the express edition are a part) is available for free download by students enrolled in computer science courses at A&M Commerce. If you don't already have an account from enrollment in a computer science course in a previous semester, an account for downloading free Microsoft products will be set up for each of you after the 12th class day (when enrollments are stabilized). Instructions for downloading from your account are at the top level in eCollege Doc Sharing (Instructions for MSDNAA Software Downloads.doc).</p> <p>For some Visual Studio Tips and Tricks, go to: http://www.cprogramming.com/visual.html</p>
<p>Code::Blocks for Linux users: http://www.cprogramming.com/g++.html</p> <p>Code::Blocks for Mac users: http://www.cprogramming.com/xcode.html</p>

Some recommendations for a successful semester:

- 1) **Be here** as often as possible.
- 2) **Read assignments** and be ready for what we'll be talking about in class.
- 3) **Ask** if you don't understand something.
- 4) **Get help** (sooner rather than later) if you have problems:
 - dept lab help (probably in Jour 200)
 - lab monitors for hardware or system help
 - free tutors in Mach III (part of the TRIO Programs) for those who qualify
 - make friends with at least one person in class so you can compare notes or check for anything you might have missed
 - get a study group together
- 5) **Stay caught up** as much as possible.
- 6) **Get started** on programs so that you have time to get help if you find you need some help.
- 7) **Do your own work.** Consult with others about problem-solving strategies, but **code it yourself.**
- 8) What you get out of any class depends to a very large degree on what you're willing to put into it. Get in the habit of writing little practice programs to try out new language features as we learn them. As you write more programs (even small ones), the process becomes easier, you're much more likely to remember how the language works, and you get much better at programming logic (the hardest part of computer programming).
- 9) Know your own limits and don't over-extend yourself any more than necessary.

TENTATIVE SCHEDULE

Week	Class Dates	Activity
1	28 & 30 Aug	Introduction and course overview Structs Ch 11
2	4 & 6 Sep	Structs Ch 11 Classes Ch 12
3	11 & 13 Sep 12 Sep (Wed)	Classes Ch 12 Schedules dropped for non-payment
4	18 & 20 Sep	Overloading, operator functions, and friend functions Ch 15 (p 862-887) Templates Ch 15 (p 925-935)
5	25 & 27 Sep	Pointer variables & Dynamic Variables Ch 14 (p 794-808) Exam 1 over classes and templates
6	2 & 4 Oct	Pointer variables & Dynamic Variables Ch 14 (p 794-808)
7	9 & 11 Oct	Linked Lists Ch 18 (p. 1024-1037)
8	16 & 18 Oct	Linked List classes Ch 18 (p 1058-1068, 1048-1049) Variations of linked lists Ch 18 (p 1072-1083) and extra material
9	23 & 25 Oct	Stacks Ch 19 Stack applications: function calls, postfix notation
10	30 Oct & 1 Nov 1 Nov (Thu)	Stack applications: function calls, postfix notation Exam 2 over pointers, dynamic variables, and linked lists Last day to drop a class and remain enrolled in other classes
11	6 & 8 Nov	Queues Ch 19
12	13 & 15 Nov	Recursion Ch 17
13	20 Nov 21 Nov (Wed)	Recursion Thanksgiving break begins at noon
14	27 & 29 Nov 30 Nov (Fri)	Algorithm Analysis Trees, Binary Search Trees Last day to withdraw (from all classes)
15	4 & 6 Dec	Trees, Binary Search Trees Hash Tables
16	11 Dec	Tuesday 11 Dec 10:30am-12:30 Exam 3 over stacks, queues, recursion, algorithm analysis, binary trees Makeup Exam

University Policies and Announcements

Students with Disabilities:

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 have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

Texas A&M University-Commerce

Gee Library

Room 132

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

StudentDisabilityServices@tamuc.edu

"All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment."

(See Student's Guide Handbook, Policies and Procedures, Conduct)

EARLY INTERVENTION FOR FIRST YEAR STUDENTS:

Early intervention for freshmen is designed to communicate the University's interest in their success and a willingness to participate fully to help students accomplish their academic objectives. The university through faculty advisors and mentors will assist students who may be experiencing difficulty to focus on improvement and course completion. This process will allow students to be knowledgeable about their academic progress early in the semester and will provide faculty and staff with useful data for assisting students and enhancing retention. Grade reports will be mailed by the end of the sixth week of the semester.

All students should be aware that plagiarism is a serious offense. This is true not only of written essays but also of work written in computer languages such as C++. Copying code for assignments from other students or the internet is not allowed. You may certainly discuss with one another the general aspects of programming assignments (like "what does this requirement mean?") and strategies for coding solutions for these assignments, but you must write the actual code for the programming assignments on your own.

Schedules will be dropped on **Wednesday 12 September** for students who have not paid the balance due on their accounts. Check the status of your account on MyLeo. For assistance in paying your balance, please check with the Bursar's Office (903-886-5051) or see the next announcement box for information about loans.

Financial difficulties?

Contact the Loan Office at 903-886-5051 for more information or refer to information on the main Student Accounts webpage

<http://www.tamu-commerce.edu/fiscal/studentaccounts/studentaccounts.htm>

for current updates or email student_accounts@tamuc.edu .