BCIS 3630 Hardy/Guynes
Spring 2021 Wednesday Night Section

COURSE WEBSITE

http://www.steveguynes.com/bcis3630/bcis3630/default.html

Instructors: Professors Hardy and Guynes
Office: Hardy – ZOOM   } Wed 5:00 to 6:00 or by appointment
               Guynes – ZOOM } by appointment
Email: leroy.hardy@unt.edu
               steve.guynes@unt.edu

TEXTBOOK: UNT Bookstore [or Amazon if UNT Bookstore is out]

Starting Out with JAVA - CONTROL STRUCTURES THRU OBJECTS
7th Edition, by Tony Gaddis   **ISBN-13: 978-0134802817 loose leaf**

Do not get the Mylab edition - it costs more

COURSE OBJECTIVES:

This course is an introduction to business computer programming and design in a corporate environment. The primary focus is on the information systems function in support of corporate activities. Students will learn business problem solving using JAVA PROGRAMMING in both a microcomputer environment and on an IBM System Z Mainframe.

JAVA TOPICS COVERED

JAVA program types, creating an application, syntax, variables, literals and identifiers, methods, expressions, print, println. primitive data types, arithmetic operators, final, string class, dialog boxes, joptionpane, scope, scanner class methods, decision structures, if-else, relational operators, nested ifs, logical operators, precedence, switch and the case structure, printf method, selection, exception handling, try/catch, repetition, formatting, loops, while loop, nested loop, methods, passing arguments, local variables, classes, instance fields, constructors, overloading methods and constructors, scope of instance fields, packages, import statements, iteration, instance, string arrays, arrays of objects, arrays, loops, external classes, table/arrays, arraylist class

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Academic Integrity Standards and Consequences.

Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating - *[such as copying JAVA CODE from other students' computer programs and turning that code in as their own work, or copying JAVA CODE that they find on the internet and turning it in as part of their own work]* also facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty will result in a range of academic penalties or sanctions ranging from negative points *on homework assignments OR the semester grade of F in the course OR expulsion from the University*.

Specifically, for BCIS 3630:

a. Copying is defined as getting even one line of code *from the internet* or *from another student*.

b. The first time a student turns in copied code, they will receive the grade of -10 on that chapter's entire assignment.

c. The second time a student turns in copied code, they will receive a grade of -20 on that chapter's entire assignment. **At this point you are in danger of failing the course, because you received no credit for two assignments and then lost 30 points from what few points you have left. That means the maximum homework grade you can receive is 50%, which means you will also lose 10% from your exam grades, assuming you get full credit for all other homework assignments [see e. below].**

d. Any other act of academic dishonesty in BCIS 3630 will result in *a semester grade of F*.

   If a student is smart they will NOT EVEN MENTION any java homework assignments in GROUPME. Someone might take their code and turn it in as their own and both students get punished equally. **Do not give another student as much as a single line of code.**

e. **You are required to complete all of your 3630 homework assignments, otherwise you will not be able to write your JAVA programs in BCIS 3680 the advanced JAVA course you are required to take. You must earn at least 60% of the 100 points available to you in 3630.**

   If you earn 60% or more, you will receive the exact average you achieve on the 3 exams. For example, if you make 160/180 on exam one, 170/190 on exam two, and 160/190 on exam 3, you earn 490/560 = 87.5% of 560 possible exam points for the full 490 points.

   However, if you only earn 50% of the 100 possible points, you will lose 10% off of your semester exam average so if you make the same 160/180 on exam one, 170/190 on exam two, and 160/190 on exam 3, you have 490/560 = 87.5% but after subtracting 10% for poor homework performance, you only receive 77.5% of 560 possible exam points for only 434 points. Do not panic over this, as we have had semesters where every student earned 60% or higher on their homework, *we are trying to keep students from failing BCIS 3680.*

COVID Policy statement

COVID-19 impact on attendance

While attendance is expected as outlined above, it is important for all of us to be mindful of the health and safety of everyone in our community, especially given concerns about COVID-19. Please contact me if you are unable to attend class because you are ill, or unable to attend class due to a related issue regarding COVID-19. It is important that you communicate with me prior to being absent as to what may be preventing you from coming to class so I may decide about accommodating your request to be excused from class.

If you are experiencing cough, shortness of breath or difficulty breathing, fever, or any of the other possible symptoms of COVID-19 (https://www.cdc.gov/coronavirus/2019-ncov/symptoms-testing/symptoms.html) please seek medical attention from the Student Health and Wellness Center (940-565-2333 or askSHWC@unt.edu) or your health care provider. While attendance is an important part of succeeding in this class, your own health, and those of others in the community, is more important.

All 3630 homework assignments go to the student grader, NO COPY GOES TO THE INSTRUCTOR. Each 3630 student is required to keep all submission emails to the grader along with the receipt that the grader sends the student when they receive the assignment. This is your only proof of submission in case of a dispute over a submission and/or of a submission being on time.

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NO MAKE-UP EXAMS WILL BE GIVEN IN THIS COURSE
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The official UNT exceptions do apply but ONLY IF YOU NOTIFY US AT THE BEGINNING OF THE SEMESTER. You must give us signed documentation from the university at the beginning of the semester. If we are not notified at the beginning of the semester - you will not be allowed a make-up exam.

For the rest of the class, if you miss an exam, we will give you a grade of 75% of the lower grade you make on the other 2 exams.

EXAMPLE: If you make a 180 and a 160 on the 2 exams you do take, we will give you 75% of the lower grade of 160 for a grade of 120 points.

BE SMART AND SHOW UP FOR ALL 3 EXAMS OR YOU WILL BE PENALIZED

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CLICK BELOW TO DOWNLOAD JAVA

https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

The Widows 64-bit version is at the bottom, the Mac 64 bit is in the middle

Create an account as a student and log in to get your java software
----
If you have a MAC, install as you normally install software
Hints for PC installation of JAVA in Windows

Be CERTAIN to install JAVA in:

C:\Program Files\Java

Do not install it anywhere else !!!

If you mess up - uninstall it - and reinstall it.

REMEMBER - BE CERTAIN THAT YOU   download and install Java ONLY in:

C:\Program Files\Java

You may use ANY   jdk1.8.0_01 … _250 etc. INSTEAD OF   jdk1.8.0_261

NEXT set the "Path"

Open Control Panel on your Windows Computer - [Start--->Control Panel]

Click the "System"

Click the "advanced system settings"

Click the "Environment Variables" button near the bottom of the box

In the **"System variables"** window, look for a variable named "Path"

Path tells software programs such as JGrasp where to find the "JAVA" executable file. Path variables are separated by a **' ; '**.

Click on the "Path" variable under "System variables" and click Edit

Scroll to the bottom of the window and type the following:

" ;C:\Program Files\Java\jdk1.8.0_261\bin;   "

Please be very careful that you add the text to the End of the existing information that you see, and be sure that you type the " ; "   along with the rest of the information stated above.

 Click OK

Next - set the CLASSPATH.

IF the "CLASSPATH" variable ALREADY EXISTS do the following:

Click on the "CLASSPATH" [as you did with Path] and click Edit

Scroll to the bottom of the window and type the following:

" ;C:\Program Files\Java\jdk1.8.0_261\lib;   "

Please be very careful that you add the text to the end of the existing information that you see, and be sure that you type the " ; "   along with the rest of the information stated above.

Click OK

IF the "CLASSPATH" variable DOES NOT EXIST do the following:

Click the New button below the "System variables" dialog box

Type "CLASSPATH" in the Variable name field

Type the following in the Variable value field:

" C:\Program Files\Java\jdk1.8.0_261\lib;   "

Click OK, OK, OK

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For PC or MAC

CLICK THE LINK BELOW TO DOWNLOAD AND INSTALL THE **JGRASP IDE** program WHICH WE WILL USE TO RUN ALL OF OUR JAVA PROGRAMS:

http://www.jgrasp.org/

JGRASP software basics

1. Open the .java file you want to compile, so you can run it or debug it for logic errors.

2. Click the 'Toggle line numbers' ICON to turn on line numbering.

3. Click the 'Compile file' ICON to check for syntax errors. [fix any errors you find]

4. When you have NO syntax errors, click the 'Run application for current file' ICON.

5. If you still have a LOGIC error, set a breakpoint on the line where you want to start

    debugging and then click the 'Run debugger on current file' ICON.

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SCHEDULE

Jan 13	**THIS IS A CRITICAL FULL 3 HOUR LECTURE – DO NOT MISS THIS CLASS** Intro to Object-Oriented Programming Aptitude Test Instructions Lecture: Intro to Mainframe 　　MAINFRAME PROBLEM ONE & TWO – **[Logging in and editing on Sys Z]** 　　Installing TN3270 for mainframe Sys Z 　　Installing FTP for mainframe Sys Z JAVA 　　Downloading and installing JAVA JDK 　　Setting PATH and CLASSPATH variables for JAVA in WINDOWS 　　INSTALLING JGRASP FOR DEBUGING JAVA	
20	**Lecture over Gaddis Ch 1 & MF Prob Three** Q&A MF Prob ONE & TWO Running JAVA Programs on Sys Z Gaddis JAVA textbook chapter 1Terminology & Writing a Program Basics **Aptitude Test – 70 minutes**	**MF Prob ONE due 1/20** Not accepted after Thur 1/21 **Ethical Behavior due 1/20**
27	**Lecture over Gaddis Ch 2** JAVA Fundamentals	**MF Prob TWO due 1/27** Not accepted after Thur 1/28
Feb 3	**Lecture over Gaddis Ch 3** Decision Structures	**MF Prob THREE due and JAVA ONE due 2/3** Not accepted after Thur 2/4
10	**Web Session A** **Hints for Gaddis Ch 1, 2, 3 Exam** Finish JAVA Two	**JAVA Two due 2/10** Not accepted after Thur 2/11
Feb 17	**EXAM ONE ON GADDIS CH1, CH2, AND CH3** **40 MC/TF Questions worth 4.5 points each = 180 points**	
24	**Lecture over Gaddis Ch 4 –** Loops Finish JAVA THREE	
Mar 3	**Lecture over Gaddis Ch 5 -** Methods	**JAVA THREE due 3/3** Not accepted after Thur 3/4
10	**Web Session B & C** **Hints for Gaddis Ch 4, 5 Exam** Finish JAVA FOUR	**JAVA FOUR due 3/10** Not accepted after Thur 3/11
Mar 17	**EXAM TWO ON GADDIS CH4 AND CH5** **40 MC/TF Questions worth 4.75 points each = 190 points**	
24	**Lecture over Gaddis Ch 6** A First Look at Classes	
31	Q & A on Ch 6, demo examples **Lecture over Gaddis Ch 7** Arrays and ArrayList	**JAVA FIVE due 3/31** Not accepted after Mon 4/1
Apr 7	Q&A on Ch 7, demo examples	
14	**Web Session D & E** **Hints for Gaddis Ch 6 &7 Exam** Finish JAVA SIX	**JAVA SIX due 4/18** Not accepted after Mon 4/19
Apr 21	**EXAM THREE ON GADDIS CH6 AND CH7** **40 MC/TF Questions worth 4.75 points each = 190 points**	

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HOMEWORK ASSIGNMENTS

Point Distribution for Assignments

MF Prob ONE – Login/Basics	UNT/SYS Z	5	1/20
MF Prob TWO – More Editing	UNT/SYS Z	5	1/27
MF Prob THREE – JAVA/FTP/JCL	UNT/SYS Z	15	2/03
JAVA ONE	Gaddis Ch 2	10	2/03
JAVA TWO	Gaddis Ch 3	10	2/10
JAVA THREE	Gaddis Ch 4	10	3/03
JAVA FOUR	Gaddis Ch 5	15	3/10
JAVA FIVE	Gaddis Ch 6	20	3/31
JAVA SIX	Gaddis Ch 7	10	4/19
TOTAL		100	

MAINFRAME PROBLEMS ONE, TWO, & THREE ARE GRADED ON THE UNT/SYSTEM Z.
EMAIL GUYNES or HARDY or BOTH WHEN READY TO BE GRADED ON THE UNT/Z.

*** ALL JAVA PROBLEMS ONE thru SIX TO BE EMAILED TO THE 3630 STUDENT GRADER

THERE IS NO SUCH THING AS LATE WORK IN 3630.
DO NOT EVER ASK THE GRADER FOR MORE TIME!!!!!!!!!!!!!!!!!!
THEY ARE REQUIRED TO INFORM US IF YOU DO AND WE WILL NOT BE PLEASED!!

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POINTS

APTITUDE TEST	40 points
EXAM ONE	180 points
EXAM TWO	190 points
EXAM THREE	190 points
<u>HOMEWORK</u>	<u>100 points</u>
TOTAL	700 points

630 TO 700 POINTS = A

560 TO 629 POINTS = B

490 TO 559 POINTS = C

420 TO 489 POINTS = D

0 TO 419 POINTS = F

FEB 17   EXAM ONE ON GADDIS CH1, CH 2, AND CH 3

MAR 17   EXAM TWO ON GADDIS CH 4 AND CH 5

APR 21   EXAM THREE ON GADDIS CH 6 AND CH 7

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OFFICIAL UNT REQUIRED SYLLABUS STATEMENTS

ADA Accommodation Statement. UNT makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide a student with an accommodation letter to be delivered to faculty to begin a private discussion regarding one's specific course needs. Students may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that **students must obtain a new letter of accommodation for every semester** and must meet with each faculty member prior to implementation in each class.

Emergency Evacuation Procedures for Business Leadership Building:
- **Severe Weather** In the event of severe weather, all building occupants should immediately seek shelter in the designated shelter-in-place area in the building. If unable to safely move to the designated shelter-in-place area, seek shelter in a windowless interior room or hallway on the lowest floor of the building. All building occupants should take shelter in rooms 055, 077, 090, and the restrooms on the basement level. In rooms 170, 155, and the restrooms on the first floor.
- **Bomb Threat/Fire** In the event of a bomb threat or fire in the building, all building occupants should immediately evacuate the building using the nearest exit. Once outside, proceed to the designated assembly area. If unable to safely move to the designated assembly area, contact one or more members of your department or unit to let them know you are safe and inform them of your whereabouts. Persons with mobility impairments who are unable to safely exit the building should move to a designated area of refuge and await assistance from emergency responders. All building occupants should immediately evacuate the building and proceed to the south side of Crumley Hall in the grassy area, west of parking lot 24.

Acceptable Student Behavior. Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. **Students engaging in unacceptable behavior will be directed to leave the classroom** and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The University's expectations for student conduct apply to all instructional forums, including University and electronic classroom, labs, discussion groups, field trips, etc.

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Welcome to BCIS 3630 JAVA programming.
Logic Preparedness Test.

We hope that every student is successful in this course. If you are a bright student with strong analytical skills and if you attempt all of the JAVA homework assignments and if you do not copy any assignment from the internet or from another student, you should make an A or B in the course.

However there are some things that we must discuss first. This past Fall 2020, approximately 33% of the students that started the semester did not complete this course successfully. The 3 major reasons for this happening are:

1. Students are enrolling in BCIS 3630 that do not have the quantitative, analytical, and logical skills necessary to succeed in a programming course.
2. There were 38 zeros on the first 2 extremely easy JAVA homework assignments.
3. There were 29 instances of admitted cheating on the first 2 JAVA homework assignments.

The Dean of the College of Business and the Chair of the ITDS Department are very upset about this poor level of performance and want us to implement measures to stop it.

1. We are addressing cheating by giving a grade of -10 points on the first assignment that a student is caught cheating on and -20 points on the second assignment that a student is caught cheating on and an F in the course for the third assignment that a student is caught cheating on.

2. We are addressing not turning in the homework assignments by lowering your semester EXAM GRADE AVERAGE if you do not attempt to complete your assignments. You must earn at least 60% out of the 100% possible for completing all assignments correctly, otherwise your SEMESTER EXAM GRADE AVERAGE will be reduced significantly.

3. We are addressing the preparedness issue by giving a LOGIC PREPAREDNESS TEST during the second week of class in BCIS 3630.

    Any student that does poorly on that test is going to be encouraged to drop 3630 and seriously ask themselves if they want to be an ITDS major which involves a significant amount of computer programming.

    In order to help a student prepare for the LOGIC PREPAREDNESS TEST, we are giving each student a STUDY GUIDE to work thru before the first day of class. This STUDY GUIDE contains 21 pages of textual material and a 40-question sample test to take at your leisure after you have studied the STUDY GUIDE. We suggest that you start working thru the STUDY GUIDE right away.

    PLEASE DOWNLOAD THE STUDY GUIDE FROM: www.steveguynes.com\

4. Whenever you complete the sample test, email Professors Hardy [Leroy.hardy@unt.edu] or Guynes [steve.guynes@unt.edu] and we will send you the answer key for you to grade your own sample test.

If you do well on it, you will be prepared for the actual LOGIC PREPAREDNESS TEST which will be given the 2nd week of class.

However, if you do poorly on the sample test, you have 2 options, the 1st is to reread the study guide closely and take the sample test again and again until you do well on it. Your 2nd choice is to drop BCIS 3630 and look for another major that better suits your talents.

If you do poorly on the sample test, you are almost certain to do worse on the actual LOGIC PREPAREDNESS TEST taken after the semester starts. Also, the grade you earn on the LOGIC PREPAREDNESS TEST which you will take during the second class period will count as 40 points of your semester grade in BCIS 3630, so please take it very seriously.

5. The companies that hire our ITDS majors demand that they are technically competent and have good grades, and ITDS decided that this is the best way to accomplish that requirement.

The UNT Accounting Department implemented a similar 'preparedness test' in order to get into intermediate accounting several years ago, and it has cut their drop rate drastically. Accounting is very strict, in that, if you do not do well on the 'preparedness test' you cannot even register for the intermediate accounting course.

Please go to www.steveguynes.com to download the Study Guide which includes the Sample test.