BCIS 3630 Dr. GUYNES
FALL 2020 TUESDAY SECTION

FINAL OFFICIAL COURSE SYLLABUS

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

Instructors: Dr Guynes / & Professor Hardy
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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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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 make a decision 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.

3630 CLASS RULES

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 other students computer programs and turning them in as their own work, or copying computer programs they find on the internet and turning them in as 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 some of which are: ***a grade of zero on ALL homework assignments OR the semester grade of F in the course OR expulsion from the University***.

a. Copying is defined as getting code from the internet or from another student.

b. Any student that turns in an assignment containing code from the internet will receive a grade of 0/65 points for all of their java assignments. In other words, cheat and you will get no credit for your java homework.

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

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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

The official UNT exceptions do apply but ONLY IF YOU NOTIFY ME AT THE BEGINNING OF THE SEMESTER. You must give me signed documentation from the university at the beginning of the semester. If I am 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, I 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, I 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

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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

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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:

AUG 25 **THIS IS A CRITICAL FULL 3 HOUR LECTURE – DO NOT MISS THIS CLASS**

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
Gaddis JAVA textbook chapter 1

SEPT 1 **Lecture over Gaddis chapter 2**
MAINFRAME PROBLEM THREE & FOUR
Running JAVA programs on the Sys Z
[MF Problem FOUR due 10-6]
MF Problem ONE due
Not accepted after THUR 9-3

8 **Lecture over Gaddis chapter 3**
MF Problem TWO due
Not accepted after THUR 9-10

15 **Lecture over Gaddis chapter 4**
MF Problem THREE and
JAVA PROBLEM ONE DUE
Not accepted after THUR 9-17

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22 **Web Session A**
HINTS FOR GADDIS CH 1, 2, 3 EXAM
Finish java problem two
JAVA PROBLEM TWO DUE
Not accepted after THUR 9-24

Sept 29 EXAM ONE ON GADDIS CH1, CH 2 AND CH 3
40 MC/TF questions worth 5 points each = 200 points

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OCT 6 **Lecture over Gaddis chapter 5**

MF Problem FOUR due
Not accepted after THUR 10-8

13 **Web Session B**
HINTS FOR GADDIS CH 4 EXAM
Finish java problem three

JAVA PROBLEM THREE DUE
Not accepted after THUR 10-15

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OCT 20 **Lecture over Gaddis chapter 6**

27 **Web Session C**
HINTS FOR GADDIS CH 5 EXAM
Finish java problem four

JAVA PROBLEM FOUR DUE
Not accepted after THUR 10-29

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Nov 3 **EXAM TWO ON GADDIS CH 4 AND CH 5**
40 MC/TF questions worth 5 points each = 200 points

10 **Web Session D**
HINTS FOR GADDIS CH 6 EXAM
Finish java problem five

JAVA PROBLEM FIVE DUE
Not accepted after THUR 11-12

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17 **Lecture over Gaddis chapter 7**

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24 **Web Session E**
HINTS FOR GADDIS CH 7 EXAM
Finish java problem six JAVA PROBLEM SIX DUE
Not accepted after MON 11-30

Dec 1 **EXAM THREE ON GADDIS CH 6 AND CH 7**
40 MC/TF questions worth 5 points each = 200 points

HOMEWORK ASSIGNMENTS

Point Distribution for Assignments

MF PROBONE - login/basics	**UNT/SYS Z**		**05**
MF PROBTWO - more editing	**UNT/SYS Z**		**05**
MF PROBTHREE - JAVA/FTP/JCL	**UNT/SYS Z**		**15**
MF PROBFOUR - MTMF LEVEL ONE	**MTMF/SYS Z**		**15**
JAVA PROBONE	**Gaddis**	**ch 2**	**05**
JAVA PROBTWO	**Gaddis**	**ch 3**	**10**
JAVA PROBTHREE	**Gaddis**	**ch 4**	**10**
JAVA PROBFOUR	**Gaddis**	**ch 5**	**15**
JAVA PROBFIVE	**Gaddis**	**ch 6**	**15**
JAVA PROBSIX	**Gaddis**	**ch 7**	**10**
TOTAL			**105**

MAINFRAME PROBLEMS ONE, TWO, & THREE ARE GRADED ON THE UNT/SYSTEM Z.
MAINFRAME PROBLEM FOUR IS GRADED BY IBM – SEND US A COPY OF YOUR EMAIL
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. ***GET ALL WORK IN ON TIME OR YOU GET A ZERO ON THAT ASSIGNMENT***. 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

EXAM ONE	**200 points in class exam**
EXAM TWO	**200 points in class exam**
EXAM THREE	**200 points in class exam**
HOMEWORK	**105 points**
TOTAL	**705 points but we divide by 700!!**

630 TO 705 POINTS = A

560 TO 629 POINTS = B

490 TO 559 POINTS = C

420 TO 489 POINTS = D

0 TO 419 POINTS = F

Sept 29 EXAM ONE ON GADDIS CH1, CH 2 AND CH 3

Nov 3 EXAM TWO ON GADDIS CH 4 AND CH 5

Dec 1 EXAM THREE ON GADDIS CH 6 AND CH 7

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After you complete the 4 mainframe problems at the beginning of the semester, you may want to earn EXTRA CREDIT BONUS POINTS by working on the IBM Master the Mainframe [MTMF] contest LEVEL's TWO and THREE.

If you work on MTMF LEVEL TWO, you will receive BONUS points for the sections that you complete correctly up to 30 points:

3 points each for: VSC2, PDS1, PDS2, JCL1, JCL2, USS1, USS2, ZOAU1 = 24 pts-
AND 6 points for ZOAU2 = 6 pts
30 pts

The maximum BONUS POINTS for Level 3 is 50 POINTS.

7.5 points each for ZCLI, CBL, REXX1, REXX2 = 30 PTS
& ANSB1 AND ANSB2 are worth 10 points each = 20 PTS
50 PTS

IBM does all of the grading and reports the results on all 3 Levels to me. All work on Levels 1, 2 and 3 must be done with NO help from anyone - labs, tutors, friends, professors, etc.

NOTE: You may continue to work on the contest until it is over in late December, but only to receive recognition from IBM for your efforts. No work completed after Nov 30 will count toward your grade in BCIS 3630.

NEWLY REVISED POLICY: If you complete all 3 LEVELS CORRECTLY, you now must turn in some type of a proposal for the "The Grand Challenge" in order to be considered a "MTM2020 FINISHER"

See Dr. Guynes for details about what you need to do to submit a very short, very simple proposal. You can put it together in less than 2 hours. .

IBM has just provided the following thoughts on the Grand Challenge

IBM states that the specific communication related to selling complex technology ideas is a mandatory skill for getting into and rising in executive level ranks. IBM believes that completing the Grand Challenge will help students with that skill.

The Grand Challenge is not meant to be complex. It only requires a brief title, a brief summary of what you are proposing, A simple diagram of what you are trying to accomplish, and very clear instructions of how to use your project to accomplish a task. IBM suggests that you pretend that you only have 15 minutes in front of the CIO of an organization to impress them with your idea. That is the grand challenge!!

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JAVA ASSIGNMENTS FOR BCIS 3630

JAVA ONE - 5 points From Gaddis chapter 2: [4 JAVA programs]

1. Solve NAME, AGE AND ANNUAL
2. Solve SALES TAX.
3. Solve TEST AVERAGE
4. Solve STOCK COMMISSION

JAVA TWO - 10 points From Gaddis chapter 3: [4 JAVA programs]

1. Solve TEST AVERAGE AND GRADES
2. Solve SOFTWARE SALES
3. Solve MOBILE SERVISE PROVIDER [use SWITCH & CHAR]
4 Solve BANK CHARGES

JAVA THREE - 10 points From Gaddis chapter 4: [**4 JAVA programs**]

1. Solve SUM OF NUMBERS
2. Solve DISTANCED TRAVELED
3. Solve HOTEL OCCUPANCY
4 Solve BUDGET ANALYSIS

JAVA FOUR - 15 points From Gaddis chapter 5: [**4 JAVA programs**]

1. Solve RETAIL PRICE CALCULATOR
2. Solve RECTANGLE AREA [start with AreaRectangle.java from chapter code]
3. Solve TEST AVERAGE & GRADE
4 Solve DISTANCE TRAVELED MODIFICATION [refer to chapter 4]

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JAVA FIVE - 15 points From Gaddis chapter 6: [4 JAVA programs]

1. Solve EMPLOYEE CLASS
2. Solve PERSONAL INFORMATION CLASS
3. Solve RETAIL ITEM CLASS
4 Solve PAYROLL CLASS

JAVA SIX - 10 points READ Gaddis chapter 7: [2 JAVA PROGRAMS]

These 2 assignments are not from the Gaddis textbook, the complete problem statement follows:

1. Write a java program that use the ArrayList command

The program should initially create a list of 10 countries that you would like to visit. DO NOT include France or Canada in your initial list as you will be using them later in the exercise.

Have the program retrieve the 10 names and print them to the screen using println.

The program should then retrieve and print only what is stored at index 4.

The program should then remove what is stored at index 9.

The program should then Add France at index 2.

The program should then Replace what is stored at index 7 with Canada.

The program should then print the size of the ArrayList

The program should then print all of the items in the ArrayList and their index Using println

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2. Write a java program that use multiple arrays

This is a simple array program which **does not use** an “external class & demo program"
If you wish, you may break it down into methods, but that is not required.

a. Set up 4 arrays which hold data about 6 items you want to sell: [make them up]

```
        int[ ]  itemnum
        int[ ]  quantity
    double[ ]  price
    double[ ]  sales
```

b. Set up loops to load the itemnum, quantity and price arrays

c. Set up another loop to calculate values for the sales array. [= price * quantity]

d. Set up another loop to print the item number and sales amount for each transaction

. e. Set up another loop to calculate the total sales of all 6 items

f. print the total sales amount

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OFFICIAL UNT REQUIRED SYLLABUS STATEMENTS

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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.