

BCIS 3630-001 Prof Pravin
FALL 2020 Monday 2:00-4:50PM SECTION
BCIS 3630-001 Remote/Synchronous Syllabus
Mondays 2:00PM to 4:50PM CST

Class room Session: Monday Class: **Zoom:** 975 7405

1390 Passcode: 16209

Class room Zoom URL:

<https://unt.zoom.us/j/97574051390?pwd=dmxndjhBTVVoUTlwTk9BZndqdmdqZz09>

Instructor: Prof. Dipak P Pravin

Office: BLB 357B

Phone: 716-830-6129

Office Hours: Tuesday 11:00 AM to 12:00PM CST

Office Hours Zoom: 550-363-5876 Password:14221

Or by Email and by appointment

Email: Dipakkumar.Pravin@unt.edu

For email: MUST USE Subject Prefix 3630-001

For Text (for **urgent** situation): Prefix 3630:<your name>

TA's Zoom room: TBD

TA Availability: TBD

COURSE WEBSITE for BACKUP when CANVAS is down:

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

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

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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.

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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 ranging from ***a grade of zero on ALL homework assignments OR the semester grade of F in the course OR expulsion from the University.***

We will break about every 50 minutes, so that you can catch up on your texting and phone calls.

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 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 higher 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 higher grade of 180 for a grade of 135 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 Windows 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

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****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.

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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

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]

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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.

SCHEDULE:

Week	Date	Topic	Note
0		Read Syllabus Then download TN3270 Software and FTP3270 Software Download JAVA from Oracle at: https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html Install JAVA following the instructions in the class syllabus ITDS Ethical Behavior - Due 9/1/2020 IT Aptitude Test - Due 9/1/2020	tn3270.zip ftp3270.zip Sample Prog
1	8/24	Lecture: (This is a CRITICAL FULL 3 HOUR LECTURE - DO NOT MISS) Intro to Mainframe Mainframe Problem One and Two (Logging in and editing on Sys Z) Installing TN3270 for mainframe Sys Z Installing FTP for mainframe Sys Z Intro to Java Downloading and installing JAVA JDK Setting PATH and CLASSPATH variables for JAVA Installing JGRASP for debugging JAVA	mfprobone.d mfprobtwo.c

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		Gaddis JAVA textbook <u>SO Gaddis Java Chapter01 7e.ppt</u>	
2	8/31	Lecture: Gaddis Chapter 2-Java Fundamentals Mainframe Problem Three & Four Running Java programs on Sys Z <u>CSO Gaddis Java Chapter02 7e.ppt</u>	MF Problem Not accepted THUR 9-3 <u>mfprobthree</u> <u>mfprobfour.</u>
3	9/7	Labor Day--NO CLASS	
4	9/14	Lecture: Gaddis Chapter 3-Decision Structures <u>CSO Gaddis Java Chapter03 7e.ppt</u> <u>Review Questions For Exams.docx</u>	MF Problem Not accepted THUR 9-10
5	9/21	Lecture: Gaddis Chapter 4-Loops and Files <u>CSO Gaddis Java Chapter04 7e.ppt</u>	MF Problem JAVA PRO DUE Not accepted THUR 9-17
6	9/28	Web Session A Hints for Gaddis Ch 1, 2, 3, Exam Finish JAVA Problem Two <u>Web Session A.docx</u>	JAVA PRO DUE Not accepted THUR 9-24
7	10/5	EXAM ONE ON GADDIS CH 1, 2, 3 40 Multiple Choice worth 5 points each = 200 points 5 from chapter 1, 17 from chapter 2 and 18 from chapter 3 REQUIRES LOCKDOWN BROWSER AND WEBCAM FOR RESPONDUS Lock-down browser download - <u>https://clear.unt.edu/supported-technologies/respondus-lockdown-browser</u> (Links to an external site.)	MF Problem Not accepted 10-4
8	10/12	Lecture: Gaddis Chapter 5-Methods <u>CSO Gaddis Java Chapter05 7e.ppt</u>	<u>RectangleAre</u> <u>TestAverage/</u>
9	10/19	Web Session B	JAVA PROB

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		Hints for Gaddis Ch 4 Exam Finish JAVA Problem Three Web Session B.docx	DUE Not accepted THUR 10-15
10	10/26	ZOOM Lecture: Gaddis Chapter 6-A First Look at Classes CSO Gaddis Java Chapter06 7e.ppt	
11	11/2	<div>Web Session C</div> Hints for Gaddis Ch 5 Exam Finish JAVA Problem Four Web Session C.docx	JAVA PROB DUE Not accepted THUR 10-29
12	11/9	<div>EXAM TWO ON GADDIS CH 4</div> 40 Multiple Choice worth 5 points each = 200 points 19 from chapter 4, 21 from chapter 5 <div>REQUIRES LOCKDOWN BROWSER AND WEBCAM FOR RESPONDUS</div>	
13	11/16	<div>Web Sessions D</div> Hints for Gaddis Ch 6 Exam Finish JAVA Problem Five Web Session D.docx	JAVA PROB DUE Not accepted THUR 11-12
14	11/23	ZOOM Lecture: Gaddis Chapter 7-Arrays and the ArrayList Class CSO Gaddis Java Chapter07 7e.ppt	
15	11/30	<div>Web Sessions E</div> Hints for Gaddis Ch 7 Exam Finish JAVA Problem Six Web Session E.docx	JAVA PROB DUE Not accepted THUR 11-26
16	12/7	<div>EXAM THREE ON GADDIS CH 6 and 7</div> 40 Multiple Choice worth 5 points each = 200 points <div>REQUIRES LOCKDOWN BROWSER AND WEBCAM FOR RESPONDUS</div>	

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Homework Assignments

Points Distribution for Assignments

Assignment	Source	Points	Due Date
MF ProbOne - Login / Basics	System Z	10	9/03
MF ProbTwo - More Editing	System Z	5	9/10
MF ProbThree - Java / FTP	System Z	15	9/17
MF ProbFour - Java / JCL	System Z	5	10/04
Java ProbOne	Gaddis Ch 2	5	9/17
Java ProbTwo	Gaddis Ch 3	10	9/24
Java ProbThree	Gaddis Ch 4	10	10/15
Java ProbFour	Gaddis Ch 5	15	10/29
Java ProbFive	Gaddis Ch 6	15	11/12
Java ProbSix	Gaddis Ch 7	10	11/26
Total		100	

Mainframe Problems One, Two, Three, & Four graded on System Z, but you must upload a screenshot on the Canvas when you are done.

All Java Problems are to uploaded to Canvas on or before the due date. (Save a copy of all your submissions).

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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Grading System

Exam One 200 points (in-class exam)
Exam Two 200 points (in-class exam)
Exam Three 200 points (in-class exam)

Homework 100 points

Total 700 points

A = 630 to 700 Points

B = 560 to 629 Points

C = 490 to 559 Points

D = 420 to 489 Points

F = 0 to 419 Points

Oct-05 Exam One on Gaddis Ch 1, Ch 2, and Ch 3
Nov-09 Exam Two on Gaddis Ch 4 and Ch 5
Dec-07 Exam Three on Gaddis Ch 6 and Ch 7

OPTIONAL Extra credit up to 80 points

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

If you work on MTMF PART TWO, you will receive points for the sections that you complete correctly up to 30 points [some are easy, some are more difficult - it will take several hours to complete]

Even more extra credit will be given to students who attempt to solve MTMF PART THREE. You will receive partial credit depending on how much you complete correctly [as per IBM].

The max extra credit is 50 points for part 3 completed perfectly. [It is very challenging but possible] 16 UNT students completed PART THREE perfectly in FALL 2019 and received full credit

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IBM does all of the grading on all 3 parts and reports the results to us. Based on what they tell us, we allocate points to you.

This extra credit work is **OPTIONAL, and must be done **with NO help from anyone** - labs, tutors, friends, professors, etc.**

All MTMF work must be completed by midnight November 30, 2020 to receive extra credit.

Please take screen shots when IBM shows you what you have correct, and send the screen shots to us as backup.

You will only receive extra credit for what IBM tells us you did, or what you show us with screen shots from IBM

Please note: you will be allowed by IBM to continue working on the contest until sometime in late December, if you want to try to finish and be put on their wall of honor which REALLY helps you get a high paying job!!

However, you will only receive BCIS 3630 credit for work completed by November 30, 2020.

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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 SERVICE 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
-

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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]

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.**

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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

Academic Integrity Standards and Consequences. According to UNT Policy 06.003, Student Academic Integrity, academic dishonesty occurs when students engage in behaviors including, but not limited to cheating, fabrication, facilitating academic dishonesty, forgery, plagiarism, and sabotage. A finding of academic dishonesty may result in a range of academic penalties or sanctions ranging from admonition to expulsion from the University.

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

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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.