

BCIS 3620 SYLLABUS
Fall 2021 - HARDY

3620 CLASS RULES & Getting Started

During lecture, all laptops, all cellphones, all iPads, all PDAs, etc. must be turned off and put away – **unless we tell you to bring a laptop to class for a special lecture. We do not want you distracted while we are talking.**

They cannot be on the desktop, and absolutely no texting is allowed during class.

Bring paper and pencil to take notes on.

We will break every 50 minutes [7:20-7:30 and 8:20-8:30]
so that you can catch up on your texting and phone calls,
but then come back to class and turn everything back off.

Read through all instructions and follow them carefully.

1. Download from Canvas:

- A SYLLABUS,
- B PROBLEM ONE,
- C TN3270 SOFTWARE,
- D FTP3270 SOFTWARE

NEXT, GET STARTED WITH 'IBM SYSTEM Z' LOG IN

Work thru **PROBLEM ONE** following each 'step' **VERY CAREFULLY**.

- A. These steps show you how to install TN3270 (our mainframe access).
- B. How to log in with your ID & PW
- C. How to install and use FTP3270 (file transfer from PC to MF)
- D. How to run a job on the SYS Z mainframe
- E. How to edit files on the SYS Z mainframe

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ADMINISTRATIVE INFORMATION:

Course Number: BCIS 3620
Course Title: Business Computer Information Systems
Semester: Fall 2021
Classroom: BLB 260

All PROBLEMS and DATASETS for the problems, ETC. are on CANVAS

BCIS 3620 SOFTWARE ONLY RUNS UNDER WINDOWS

IF YOU HAVE A MAC, INSTALL WINDOWS ON IT, OR IF YOU PREFER, WORK IN THE UNT LABS OR YOU CAN ACCESS ALL SOFTWARE THRU VMWARE (www.unt.edu → search for VMWARE, then pick the RCOB one).

Instructor: Professor Hardy
Office: BLB 367C } Mon 5:00 to 6:20 or Zoom by appointment
Email: LeRoy.Hardy@unt.edu
Phone: 940.369.8569

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 PROGRAMMING in a true Mainframe development environment. Upon the successful completion of the course, the student should be able to analyze a business problem, design a solution to the problem, develop a program consistent with the design using IBM Mainframe tools, and implement the solution.

NO TEXTBOOK WILL BE REQUIRED – Download the COBOL Lecture Notes

Each student will be given an account on an IBM System Z Mainframe.

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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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NEXT, INSTALL THE COBOL PC SOFTWARE

Net Express [nx50] COBOL software for a PC should be run online under VMWARE thru the UNT COB LABS.

However, you can attempt to get nx50 to run at home under WINDOWS by following the instructions below

Download nx50 from Canvas to your c:\ drive or to a flash drive, and click that zip file giving an 'nx50' folder

NEXT: **cut that 'nx50' folder and paste it to the root of c:**
giving **c:\nx50**

NEXT:

1. Open a command line prompt [the black DOS screen]
Then Type CD\ giving you C:\>
2. Run the NX installation file with the following parameters:

C:\>nx50\SETUP\NXP3250020077.exe /V"CHECKPREREQLIST="

In the custom setup list [the tree diagram] only install:

“Net express support for Windows and Cross platform”

BE CERTAIN THAT THERE IS A LARGE RED X
BESIDE THE OTHER FEATURES

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OFFICIAL UNT 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 Notification & Procedures. UNT uses a system called Eagle Alert to quickly notify students with critical information in the event of an emergency (i.e., severe weather, campus closing, and health and public safety emergencies like chemical spills, fires, or violence).

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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By August 30 you are to have run the following 3 example programs on the PC: [see next page for instructions] they are located in the EXAMPLES folders you downloaded.

- [1] READ-WRITE-ADD;
- [2] HEAD-LINECNT;
- [3] REPORT DATE-COMPUTE; and

YOU MUST HAVE A SEPARATE FOLDER FOR EACH PROGRAM which is how I gave them to you. All 3 files [see below] for each program that you run will be together in a folder. Print off ONE COPY of:

- [a] The program, [the .cbl file is printed from net express File/Print]
- [b] Its input data, [the .dat file is printed from notepad]
- [c] Its output report [which you get when you run the program on the PC under NET EXPRESS and is the .doc file which you print with Word]

Bring the a, b, & c parts to class for EACH of the 3 example programs.

You will take lecture notes in class on the above mentioned 9 printouts [3 programs, 3 input, and 3 output]

IN ADDITION TO THE ABOVE PRINTOUTS

EMAIL A COPY **OF ONLY THE OUTPUT** FROM EACH OF THE 3 EXAMPLE PROGRAMS **TO ME** on or before Aug 31.

Instructions for running NET EXPRESS using UNT's VMWARE or using your own PC

1. Open the **READ-WRITE-ADD** folder's readcbl.cbl program in net express
2. Click the red checkmark icon, Should show no errors
3. Click the black footprint icon
4. Browse to the matching readcbl.int file [IT WILL BE IN THE **SAME FOLDER** AS THE .cbl FILE YOU ARE RUNNING] and open it, then click OK.
5. Note that the perform 200-open is highlighted
6. Click the black running man icon and you should get a stop run message.
7. Go to your folder and note your output file which ends with .doc
8. That's it !!!!!!!
9. Do the same for all 3 of your cbl programs

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Aug 23 Assign Mainframe PROBLEMS One and Two
Every 3620 student must complete the IBM MTMF contest Levels 1 and 2 and the first 3 steps of Level 3 during the semester
Lecture: Introduction to IBM System Z
Lecture: on Example: READ-WRITE-ADD
Assign PROBLEMS One, Two and Three

30 **Lecture:** on IBM System Z and
PROBLEM Three - how to write a
COBOL program from scratch
Bring your PC to class for this lecture

Prob One Due Monday (8/30) [Z]
[NOT Accepted After Tuesday 8/31]

Sept 6 – Labor Day

13 **Lecture:** PROBLEM Three &
PROBLEM Four &
Changing signs

Prob Two Due Monday (9/13) [Z]
[NOT Accepted After Tuesday 9/14]

Prob Three Due Thursday (9/16)
[from scratch]
[NOT Accepted After Friday 9/17]

20 **Lecture:** Q & A on PROBLEM Four
Lecture: on PROBLEM Five

Prob Four Due Thursday (9/23) [Z]
[chg sign]
[NOT Accepted After Friday 9/24]

27 **Lecture:** on PROBLEM Five
Present PROBLEM Six

nothing due this week

Oct 4 **Lecture:** on PROBLEM Six

Prob Five Due Thursday (10/7)
MTMF LEVEL 1 DUE OCT 7TH
[NOT Accepted After Friday 9/24]

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11 WEB SESSION A

Take practice test for EXAM ONE
Also continue work on PROBLEM Six

18 **EXAM ONE** [THRU Problem Five ONLY]

25 **Lecture:** Q & A on PROBLEM Six
Lecture: on PROBLEM Seven

Nov 1 Lecture: Q and A on PROBLEM Seven
Lecture: on **TAKE HOME FINAL**

Prob Six Due Thursday (11/4) [Z]
[NOT Accepted After Friday 11/5]

8 **Lecture: Q and A on TAKE HOME FINAL**
Lecture: SORT command &
TABLES/ARRAYS
Review for EXAM TWO

Prob Seven Due Thursday (11/18) [Z]
[NOT Accepted After Friday 11/19]

15 Tentative - **TRIP TO IBM IN DALLAS**
6:00 TO 9:00

OR Lecture on advanced topics to be handed out

Nov 22 WEB SESSION B

Read about PACK/UNPACK in DATA FORMATS in CLASS NOTES
Read about COPY/CALL in CLASS NOTES
Read about NUMBER SYSTEMS in CLASS NOTES
Work on PROBLEM seven

29 **EXAM TWO** [stressing PROBLEMS Six thru TAKE HOME FINAL]
TAKE HOME FINAL DUE
MtMF DUE

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ASSIGNMENT DUE DATES SORTED BY DATE

THE 3 EXAMPLES & **PROB One DUE 8/30**

PROB Two	DUE 9/13
PROB Three [from scratch]	DUE 9/16
PROB Four [chg sign]	DUE 9/23
PROB Five [1st part]	DUE 10/7
PROB Six [2nd part]	DUE 11/4
PROB Seven	DUE 11/18
TAKE HOME FINAL	DUE 11/29

The deadline for getting credit for 3620 thru the contest is Monday Nov 29th at midnight.

The easiest way to get credit for what you complete is to send Hardy your MTM2020 Z##### ID and password and we can login and check you're your work and give you credit for all of your efforts.

You will ONLY have us login and check your work when you have COMPLETELY finished a Level or on November 29 when the contest IS OVER so far as UNT is concerned.

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MTM 2021 LEVEL 1 IS DUE BY OCTOBER 8TH - LEVELS 2 AND 3 BY NOVEMBER 29TH

Level 1 is easy and must be complete to receive ANY credit. Either 0 or 15 pts.

Level 2 details and scoring will be provided after IBM publishes the contest.

Level 3 details and scoring will be provided after IBM publishes the contest.

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 January, but only to receive recognition from IBM for your efforts, and extra credit in 3690. No work completed after Nov 29 will count toward your grade in BCIS 3620.

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HOMEWORK ASSIGNMENTS MUST BE DOWNLOADED FROM CANVAS

Please turn your work in on time.

Point Distribution for Problems

PROBLEM ONE	15	SYS Z [MF]
PROBLEM TWO	20	SYS Z [MF]
PROBLEM THREE	10	PC [Email me]
PROBLEM FOUR	10	PC & SYS Z
PROBLEM FIVE	10	PC & SYS Z
PROBLEM SIX	15	PC & SYS Z
PROBLEM SEVEN	10	jcl/utilities
<u>TAKE HOME FINAL</u>	<u>10</u>	PC ONLY
TOTAL	100	

Desk check your problems for completeness and accuracy!

All PROBLEMS and DATASETS for the problems, ETC. Can be downloaded from Canvas

Examples will be used extensively in lecture. Students MUST compile, execute, and print out the results of all Review Examples, AND BRING TO LECTURE!

**IF YOU WORK WITH A STUDY PARTNER, IT MUST BE OVER CONCEPTS [NOT CODE].
YOU CANNOT WORK AS A TEAM.**

**I CONSIDER AND WILL TREAT STUDENTS WHO SHARE CODE AS CHEATERS and MAY
AWARD THEM A GRADE OF F FOR THE COURSE**

I do not help with assignments 24 hours before the deadline for their submission.

**The reason I do this is to STRONGLY ENCOURAGE students to complete their
assignments before the deadline.**

**Companies fire programmers who get their work finished at the last minute. In
essence, IN THE REAL WORLD you will be FIRED if your work is not completed EARLY.**

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USING NET EXPRESS COBOL **ON VMWARE** TO DEBUG PROGRAMS

Students can save themselves considerable amount of time by learning and using the step and add to list and breakpoint functions of the animator for program debugging.

The Animator provides a complete development environment you can use to create, edit, analyze, and optimize your source code. You can edit your program, test and correct syntax and logic errors, animate the program, and navigate through its logic.

NO MAKE-UP EXAMS WILL BE GIVEN DURING THE SEMESTER.

Grading System

MTMF LEVEL 1	is	15 points
MTMF LEVEL 2	up to	50 points
MTMF LEVEL 3		all bonus points
EXAM ONE		235 points in class exam
EXAM TWO		200 points in class exam
TAKE HOME FINAL		10 points take-home
<u>HOMEWORK 1-7</u>		<u>90 points</u>
TOTAL		600 points

**Please take care of personal business before an exam starts.
No electronic devices are allowed or visible, including smart watches, phones, and calculators. No digging through backpacks during exam, so have out what you need. Caps must be turned backwards during the exam, so I can see your eyes. Bring mechanical or 2 pencils with erasers.**

YOU WILL NOT BE ALLOWED TO LEAVE THE ROOM DURING THE EXAM.

If for any reason, you leave THE ROOM, we will grade only what you have done to that point. You cannot come back and finish the exam.

Again, please take care of personal business before an exam starts