

BCIS 3620 SYLLABUS
Fall 2020 - GUYNES / 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.

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1. Download:
 - A SYLLABUS,
 - B PROBLEM ONE,
 - C TN3270 SOFTWARE,
 - D FTP3270 SOFTWAREALL from the MAINFRAME website AT:
<http://www.steveguynes.com> or Canvas

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.
- B. How to log in with your ID & PW
- C. How to install and use FTP3270
- 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 2020
Classroom: SAGE 116

All PROBLEMS and DATASETS for the problems, ETC. are on CANVAS or can be downloaded from the WWW. Go to the website:

<http://www.steveguynes.com>

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.

Instructors: Dr Guynes / & Mr. Hardy
Office: Guynes – BLB 312H } Mon 5:30 to 6:20
Hardy – BLB 313C } Mon 5:30 to 6:20
Zoom by appointment
Email: steve.guynes@unt.edu
leroy.hardy@unt.edu

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

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

Click: [Download COBOL NX 5.0](#)

Download nx50 from the above link 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 31 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 Sept 1st

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 24 Assign Mainframe PROBLEMS 1 and 2
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

31 **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 [Z]
[NOT ACCEPTED AFTER Tuesday]

Sept 7 – Labor Day

14 **Lecture:** PROBLEM THREE &
PROBLEM FOUR &
Changing signs

PROB TWO DUE MONDAY [Z]
[NOT ACCEPTED AFTER Tuesday]

**PROB THREE DUE THURSDAY
[from scratch]**
[NOT ACCEPTED AFTER Friday]

21 **Lecture:** Q & A on PROBLEM FOUR
Lecture: on PROBLEM FIVE

**PROB FOUR DUE THURSDAY
[chg sign]**
[NOT ACCEPTED AFTER Friday]

28 **Lecture:** on PROBLEM FIVE
Present PROBLEM SIX

nothing due this week

Oct 5 **Lecture:** on PROBLEM SIX

MTMF LEVEL 1 DUE OCT 8TH

**PROB FIVE DUE
THURSDAY 10TH**
[NOT ACCEPTED AFTER Friday]

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12 WEB SESSION A

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

19 **EXAM ONE** [THRU PROBLEM five ONLY]

26 **Lecture:** Q & A on PROBLEM six
Lecture: on PROBLEM seven

Nov 2 Lecture: Q and A on PROBLEM seven
Lecture: on **TAKE HOME FINAL**

PROB SIX DUE THURSDAY 7TH
[NOT ACCEPTED AFTER Friday]

Nov 9 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

Nov 16 Lecture: Q and A on TAKE HOME FINAL
Lecture: SORT command &

TABLES/ARRAYS

Review for EXAM TWO

PROB SEVEN DUE
THURSDAY 21st
[NOT ACCEPTED AFTER
FRIDAY 11-29]

23 **EXAM TWO** [stressing PROBLEMS SIX thru TAKE HOME FINAL]

30 MAYBE - **TRIP TO IBM IN DALLAS**
6:00 TO 9:00

TAKE HOME FINAL DUE
MtMF DUE

OR Lecture on advanced topics to be handed out

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ASSIGNMENT DUE DATES SORTED BY DATE

THE 3 EXAMPLES & **PROB ONE DUE 8/31**

PROB TWO

DUE 9/14

PROB THREE [from scratch]

DUE 9/17

PROB FOUR [chg sign]

DUE 9/24

PROB FIVE [1st part]

DUE 10/8

PROB SIX [2nd part]

DUE 11/5

PROB SEVEN

DUE 11/19

TAKE HOME FINAL

DUE 11/30

The deadline for getting credit for 3620 thru the contest is Monday Nov 30th at midnight.

The easiest way to get credit for what you complete is to send Hardy or Guynes 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 December 1 when the contest IS OVER so far as UNT is concerned.

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MTM 2020 LEVEL 1 IS DUE BY OCTOBER 8TH - LEVELS 2 AND 3 BY NOVEMBER 30TH

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

Level 2 is thought provoking and partial credit will be given for all sections completed correctly. VSC2, PDS1, PDS2, JCL1, JCL2, USS1, USS2 & ZOAU1 are worth 5 points each and ZOAU2 is worth 10 points.

Level 3 is challenging but doable with much effort. The points are:

7.5 points each for ZCLI, CBL, REXX1, REXX2	= 30 PTS
& ANSB1 AND ANSB2 are worth 10 points each	= <u>20 PTS</u>
	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 3620.

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. If you become a MTM2020 finisher, [as stated by IBM] you will receive an automatic A in BCIS 3620.

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 gain 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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HOMEWORK ASSIGNMENTS MUST BE DOWNLOADED FROM THE BCIS 3620 Website or 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
PROBLEM FOUR	10	PC & SYS Z
PROBLEM FIVE	10	PC & SYS Z
PROBLEM SIX	15	PC & SYS Z
PROBLEM SEVEN	10	jcl/utilities
TAKE HOME FINAL	10	PC ONLY
TOTAL	100	

Desk check your problems for completeness and accuracy!

All PROBLEMS and DATASETS for the problems, ETC. Can be downloaded from the WWW. Go to the website: <http://www.steveguynes.com> or in 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

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