College of DuPage 8/15/23 Course Syllabus

Course Title: Programming Logic & Technique, CIS1400-003 FL 2023

Credit hours: 4 -Clinical Hours: 0 Lecture Hours: 4 Lab Hours: 0 VC

Instructor: Robert Burrows - for a bit about me see <u>https://www.cod.edu/faculty/websites/burrows/index.aspx</u> E-Mail: <u>burrows@cod.edu</u> Every attempt will be made to answer e-mail on a daily basis. When sending emails please clearly indicate the problem or concern you are having, your name and course enrolled. If you have a programming problem you can't figure out (after spending at least 30 minutes trying ⁽ⁱ⁾), I will have an alert set up so that if you enter "1400-HELP" in the subject line of your email I will get paged and get back to you as soon as possible. All communications between us will be through the COD email and/or blackboard possibly in an online help session.

Office Hours/additional help: By request in class or via email- there will be periodic help sessions arranged outside of class as requested by students

Dates, Day & Time, Classroom: 08/24/2023-12/14/2023 Lecture/Discussion Thursday 06:00PM - 09:50PM, Seaton Computing Ctr, Room 115

Textbook & Materials Needed:

Starting Out with Programming Logic and Design, 6th Ed. By Tony Gaddis, 2019 ISBN: 978-0-13-760214-8, Publisher: Pearson.

You can get a copy of the book at the COD bookstore, Follet Discovery link,

https://www.bkstr.com/dupagestore/home/en The online version of the book is \$39.96 which I recommend. If you like a printed (hardcopy) of the book to keep as a reference and make notes in as you read, it costs \$149.98 new and \$112.50 used. Make sure you get the 6th edition as some earlier versions maybe free but will not work for this class.

You will need a PC or MAC for the class for homework. If you don't have a computer and cannot afford one at this time the college library can lend you one. See <u>request form</u> on the <u>Library website</u>.

We will use the Python programming language in this class. Python is a relatively easy language compared to Java and C++. Python is a free download and the current version used for class is 3.11.4 which you can download to your Mac or PC at <u>https://www.python.org/downloads/</u> The install will detect if you have a PC or MAC. If you need help with the install please email me and I will help you.

Your and My Goals for the class:

I will ask for your goals and get to know you in the first class assignment.

My goal is to help you reach your goals in any way I can; and since retired from my day job I have lots of time to help.

Especially in these strange times of pandemics, climate change, and racial injustice to name a few, statistics have shown a growing number of students experiencing mental health challenges to varying degrees. Doing what you can to stay ahead and on top of depression or anxiety by wisely taking care of yourself will be a key

College of DuPage 8/15/23

to succeeding academically. But even then, sometimes these challenges can affect your ability to complete the required work. Or a particular assignment might trigger anxiety for you in ways I have not anticipated. Or maybe you reach a point where you just can't get yourself to class at all.

In any of these cases, please come and talk with me or at least send me an e-mail. I'll listen and do what I can to help. The sooner you share your challenges with me, the more I can help you plan to succeed in this course. To learn the material and pass the course or earn an A, you'll still need to do every bit as much work as other students, but we may be able to find some creative ways to help you do that—especially if you approach me when your problems arise, instead of at the end of the semester.

Course Description

An introduction to computer-based problem-solving techniques. Includes software design tools such as structure charts, Input Processing Output (IPO) charts, flowcharts, pseudocode, and Unified Modeling Language (UML) diagrams. Concepts such as documentation, structured design, modularity, Object Oriented Program (OOP) design, and event driven programming are covered. Programming of algorithms are implemented using a high level language that emphasize structured and object oriented design techniques. Repeatable for credit: No Pre-Enrollment Criteria:

Prerequisite: MATH 0482 Foundations for College Mathematics II with a grade of "C" or better, or equivalent or

Prerequisite: MATH 1115 Technical Mathematics I with a grade of "C" or better, or equivalent or a qualifying score on the mathematics placement test or Consent of Instructor

Topical Outline: I have divided the class into 6 learning modules – divide and conquer

Module 1 – Introduction + chapters 1 and 2 in your book

- 1. Program Development Lifecycle (PDLC)
- 2. Software design techniques
- 3. Computer based paradigms
- 4. Simple data types
- 5. Variables, constants, and literals

Module 2 chapters 4 and 5 in book (Note we skip ch 3 and as a result skip some reading in ch 4 & 5)

- 6. Control structures
 - a. Sequential
 - b. Selection
 - c. Repetition
- 7. Arithmetic, relational, and logical operators

Module 3 chapter 3 and 6 in book.

- 8. Local and global variable scope
- 9. Modularity, parameter passing, and return values
- 10. Input validation

Module 4

- 11. Advanced data types: Arrays
 - a. Single dimensional
 - b. Multi-dimensional
 - c. Parallel
- 12. Searching and sorting algorithms for arrays



8/15/23

Module 5

- 13. Files
- 14. Menu Driven Programming
- 15. Text Processing

Module 6

- 16. OOP design concepts
- 17. GUI and event driven programming

General Course Objectives:

Upon successful completion of the course the student should be able to do the following:

- 1. Explain steps used in program development cycle
- 2. Identify tools used in software design
- 3. Create algorithms to solve both verbal and written problems
- 4. Differentiate simple data types
- 5. Differentiate variables, constants, and literals
- 6. Apply concepts of structured program design such as modularity, sequence, selection, and repetition
- 7. Differentiate arithmetic, relational, and logical operators in algorithm design
- 8. Demonstrate variable scoping in program design for local and global variables
- 9. Apply data transfer techniques between modules using parameters and return values
- 10. Construct applications to use files for input and output
- 11. Implement arrays as structures to contain data
- 12. Use searching and sorting algorithms in problem designs
- 13. Use a higher level programming language to code, test, and debug software designs
- 14. Implement concepts of abstraction and encapsulation using Object Oriented Programming (OOP) design
- 15. Explain advanced OOP design techniques such as inheritance and polymorphism
- 16. Describe integration of Graphical User Interfaces (GUIs) and event driven programming

Course Requirements

<u>Student Responsibilities:</u> Keeping up with class assignments is critical in successfully completing this course. If you have conflicts with personal or work issues please let me know as soon as possible.

In addition, during the pandemic, being in the classroom you must comply with current school Covid requirements found at https://cod.edu/coronavirus/index.aspx or you will not be allowed in the classroom; and if not compliant within two weeks you may be dropped from the class. Finally, if you get Covid, please let me know ASAP and we will make accommodations.

Class attendance and active participation are essential if students are to receive maximum benefit from the class. Participation requires preparation including completion of reading, labs, assignments, assessments, and exams by the due dates. All due dates will be mentioned on the class blackboard. Students are responsible to submit all work on or before the due dates. It is the students' benefit to use their time wisely whether it is in

College of DuPage 8/15/23

preparation for class, during scheduled class, or in the lab. When students are in any COD lab environment, they should abide by the college policies. Questions, comments, and suggestions are welcome.

Exams and make-up policy: There will be two exams. No retakes of exams are allowed. Make-up exams are not encouraged except on emergency situation.

<u>Assignments (including weekly quizzes)</u>: It is extremely critical that students complete all assignments on time. Past experience has shown that students that were behind on their assignments never caught up. Students may submit assignments early. Submitting assignments in the order assigned will ensure progression according to academic design of the course. If an assignment is late you will start with half credit.

<u>Help in person on campus</u>: I will be able to meet with you on campus or online for one on one or class help sessions. Please send me an email or arrange with me in class. Before and after class will save us both a trip to the college ©

<u>Academic policy</u>: Any violation of COD policies regarding academic honesty and/or integrity will be referred automatically to the appropriate college authorities for disposition. Please see appropriate pages in the college catalog for definitions and regulations. The minimum penalty for cheating will be a zero for all parties involved on that exam, assignment, lab, or assessment. AI (chatGPT) is not perfect, but can be a tool to help.

<u>Withdrawal policy</u>: Missing three or more assignments or quizzes before mid-term without a reason discussed with me will result in the student withdrawn from the class for non-Pursuit of the course objectives. No longer attending a class does not constitute an automatic withdrawal. All withdrawals must be done on or before Sunday November 12th as in the College's academic calendar (<u>https://catalog.cod.edu/academic-calendar/</u>) It is important to drop if you cannot complete the work as an Incomplete grade is <u>not</u> allowed in this class.

<u>Class Behavior and set up</u>: Class participation is important, during class time, considerate conduct by all persons is important to a favorable learning environment. Any infringement on the rights of others to get education will be dealt with in an appropriate manner. Please to avoid distractions during class and have your computer on mute unless asking a question.

<u>Team Projects in class</u>. Being a good team player is an essential for a programmer on the job. You can pick or I will assign you teams to work with on projects in class. If due to Covid concerns or other issues you do not want to work directly with your classmates, let me know and you will be able to work in an online team.

<u>General notes</u>: In order to achieve the course objectives, it is essential that comply with the above requirements, the rules and policies of COD contained in the catalog and other COD materials.

Class period rough outline – may change slightly week to week

5:30 - 6:00 Help session as needed Note if you would like to come in earlier email me
6:00 - 6:05 Questions from last class
6:05 - 7:50 Lecture/discussion - can take break whenever need to
7:50 - 8:00 Break
8:00 - 8:50 Lecture/discussion
8:50 - 9:50 Homework help
10:00 - 10:30 After class Homework/question session as needed

College of DuPage 8/15/23

Grading and Evaluation Criteria

Your final grade is based on accumulation points of all class work including homework, quizzes, and exams. NOTE: Due dates for all homework and Quizzes are as assigned in blackboard. Points are as follows:

Programs/Assignments 25 x 10 pts/each and 1 x 20 pts (family recipe program)	260
Quizzes 13 x 10 points each - checks to insure you understand the material in the book	130
Tests (50 points for midterm and 70 points for Final)	120
Total points on assignments and tests	510
 Extra Credit – there will be additional programs/assignments for extra credit throughout the semester. You can also earn extra credit points for class participation at my discretion. Extra credit (EC) assignments fall into 3 categories and may not be available to all students as described below: 1) EC available for all students and will be denoted as such. 2) EC are only for those students who are struggling with the material or behind in their work which include the checkpoint extra credits which must be in by their due date. 3) EC are only for those students who have kept up with the work and want to be challenged beyond the course material presented. Some of these students may have already had a programming course. Extra Credit assignments are worth 5 points each Extra Credit assignment, except for the checkpoints as above do not have hard due dates. The due dates are just suggestions so can keep up with the course. However, Extra credit with due dates prior to the midterm must be turned in by the midterm for credit, or by the final for the second half of class. 	Up to 40 points
Total points possible	550

<u>Final Grades</u> will be assigned using the following point scale which is on a 90%,80%,70%,60% and below out of the 510 points before extra credit.

Notes on grades:

<u>1)</u> Blackboard shows extra credit in our pct grade, in other words if extra credit is 5 points and you haven't done it black board gives you 0 out of 5 points which makes your pct grade in blackboard appear lower but just ignore this percent grade in BB. Your grade is just based on points and if you don't do extra credit you don't lose any points – extra credit can only help you.

2) Your grade is simply based on your point total. Please do not ask for a higher grade at the end of the semester even if you miss the next grade by 1 point.

3) After the final exam you will see your point total and have a day or so to complete assignments and/or do extra credit to move your grade up.

Accumulated Points	Grade	Percentage
459 – 550	А	>= 90 %
408 – 458	В	80 - 89

357 – 407	С	70 – 79
306 – 356	D	60 – 69
305 or below	F	< 60 %

Course Outline

8/15/23

1) The outline below is tentative and may change during semester depending on how our class progresses 2) Assignments, Assessments, and hands-on labs will be available on the class blackboard (BB) site. The due dates for assignments below are also in the BB course calendar which should show all your classes' assignments – Drop down by your name on upper right of blackboard. All Python submissions should include your Python program(s) as a .py file and test case output in a .txt file

3) The dividing line between each class shows what we will cover before break and after break. 4) All **assignments** are from the end of each chapter in your textbook in the <u>Programming Exercises</u> section. For example, Prog EX 2-6 Sales Tax means Programming Exercises Chapter 2 exercise 6 on page 99, and NOT exercises 2 through 6, nor the example 2-6 on page 44. Note the online textbook does not have page numbers so to find the assignment but in the name, e.g. Sales Tax for exercise 6 in chapter 2.

5) All assignments not turned in by due date in last column of the table below will start with half credit. NOTE: If you email me with valid reason why you are late or why you are going to be late and when you plan to complete the homework or quiz, at my discretion you may still get full credit. As a programmer or software developer in the real world, it never hurts to ask for additional time to finish a program

6) **Reading is not submitted as an assignment**. Your reading is checked by the chapter quizzes which has multiple choice questions on the reading.

7) **Quizzes** not submitted by the due date you will start with half credit. Again, my discretion to extend due date for you if you email me with a real issue and a plan date to do it.

7) Active reading.. Your textbook solves problems with pseudocode. As we will go over in class, pseudocode is description of your program logic without the formal syntax of a specific programming language. From pseudocode you can then write your program in any language. As mentioned, the specific language we are learning in this class is Python. So, I am going to give you a Python Supplement guide for each chapter in your textbook (starting with chapter 2) You can find these supplement guides in BB under Python Supplement link. As you read the pseudocode examples in each chapter you should also read the Python companion and see and try the same pseudocode examples in Python. An example follows:

When reading Program 2-10 on page 53 (online readers can search for 2-10) shown below:

Program 2-10

```
1 Display "Enter the first test score."
2 Input test1
3 Display "Enter the second test score."
4 Input test2
5 Display "Enter the third test score."
6 Input test3
7 Set average = (test1 + test2 + test3) / 3
8 Display "The average score is ", average
```

If while reading you are following along in the Python supplement (found in BB) for chapter 2:

8/15/23

You will see the Python program corresponding to this book pseudocode above as:

In Python this program is (assuming test scores are integer numbers): test1 = int(input("Enter the first test score.")) test2 = int(input("Enter the second test score.")) test3 = int(input("Enter the third test score.")) average = (test1 + test2 + test3) / 3 print("The average score is ", average) # comment- this output also be written as print(f"The average score is {average}") Try it

So to be an active reader you can:

1) Got to IDLE and do a File - New File to create a new program.

2) Copy and paste the program (starting with test1 =) from the supplement shown above and paste into IDLE

3) Run the program in IDLE Run- Run Module

4) IDLE will ask you to name program and save it - name it something like Program 2-10 so you can refer back to it iif needed

5) Enter some test data (I'll talk about simple input - like below that the average is 90)

Enter the first test score.80 Enter the second test score.90 Enter the third test score.100 The average score is 90.0

6) Next try changing the print statement to the "f string" form that I mentioned in class was more popular

print(f"The average score is {average}")

and as it says in the supplement "Try it" you may use the same input or different input

You also may try things on your own (experiment !) like change the period(.) in each input prompt to a colon (:) and run the program again

This is what I mean by active reading with the supplement

The Python Supplements also covers the syntax of the Python language and review some of the Python language I present in lecture. Please let me know any errors you find in the companion guide you will get extra credit for errors you find

Reading assignment of the textbook **and** the companion guide chapters are due for the class as in the right column below.

Again, You should be able to see these assignments in your Course Calendar as described above, along with the assignments of other classes if you are taking any.



Module Class#	<u>Topics covered in class</u> <u>And homework/quiz start dates</u>	<u>Due Dates</u> Reading textbook homework, quizzes.
Date		And extra credit
Mod 1 Class 1 Aug 24	Course introduction Programming and algorithms OTTO – types of programming logic Review syllabus Install Python Class student Survey to determine your	Read Ch 1 book Note: No Python Supplement for Ch 1
	experience objectives, and motivation <u>HW 1: Student Profile in class</u> Textbook Reading Chapter 1 Introduction- a look inside the computer <u>HW 2: Prog Ex 3-1</u>	
Class 2 Aug 31	Chapter 2 Input, Process, Output – variables Pseudocode & Flowcharts Example: Prog EX 2-8 IPO, flowchart, pseudocode, and Python in class Chapter 2 more examples, review and questions,	Actively Read Ch 2 book and Python companion guide. For rest of syllabus read chapter means both the textbook and companion guide. HW 1 HW 2 Extra Credit – want to be a programmer?
	HW 3: Prog Ex 2-6 Quiz Chapter 2	Extra Credit Saundra McGuire's Video on being the best student you can be
Class 3 Sept 7	SPECIAL GUEST Chapter 2 finish up Do Lab 1-6 Pedometer.docx found in Week 3 notes and materials Prog Ex 2-15 Ingredient Adjuster 101 book Structure and Boolean Logic	Read Ch 3 Quiz Ch 1 Quiz Ch 2 Extra Credit Lab 1.6 Pedometer Calculator turn in Python code
	Lab 1.6 Pedometer Calculator pseudocode Chapter 3 If statements - Decision HW 4: - recipe program. Pick your favorite or family favorite recipe and write a program very much like Ex 2-15 Ingredient Adjuster. You should turn in 3 attachments as shown in the assignment	
Mod 2	Chapter If statements - Decision Example: Program Ex 3-2 & 3-5 pseudocode and flowchart in class HW 5: Prog EX 3-1 Quiz Chapter 3	
Class 4 Sept 14	Review Point Total Finish Chapter 3 Another decision logic flowchart example Chapter 4 Repetition Structure (looping) - finding a parking spot	Mod 1 CheckPoint Extra Credit for those behind Extra Credit Python for batting average program HW 3 Read Ch 4

	HW 6: Prog Ex 3-6	HW 4
OTR grades		Quiz Ch 4
		HW 5
	Chapter 4 continue on looping	
	Prog Ex $4 = 1.4 = 2$ in class Flowchart and	
	Python -4.5 flowchart in class – python extra	
	4-5 Howenart in class python extra credit and/or $4-9$ Pennies for Pay	
	Pub Crawl flowchart	
	Review Your Point Total	
	Ouiz chapter 4	
	HW 7. Prog EX 4.2	
	Finish un chapter 4	Paul Ch 5
Class 5	HW 9: Prog EV 4.2	
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	HW 6: PIOg EA 4-5	HW 0 Ovia Ch 4
Sept 21		
		HW /
1.6.1.0	Chapter 5 Modules Introduction Divide and	
Mod 3	Conquer	
	Make mean mine evencies 2.8 modulor Duthon	
	Wake programming exercise 2-8 modular Python	
	HW 0: Prog EV 5 2 Salas Tay modular	
	Finish up Chapter 5	Mod 2 Chaol Doint Extra Cradit for those behind
Class 6	Chapter 6 Functions	Fytra Cradit Program 4.5 tuition in Python
Sept 28	Quiz Chapter 6	Extra Credit Program 4-9 tutton in Fython
	HW 10: Prog EV 6 1	Extra Credit Program 4-9 pennies Python
	Chapter 6 Expetions reasing variables in class	Read Ch 6
	chapter o Functions passing variables in class	
	flowshart to see logic Puilt in functions Turtle	Quiz Ch 5
	nowchart to see logic Built in functions furthe	HW 9
	HW 11: Prog EX 6 7	
<u> </u>	Chapter 6 finish up and raviaw	Pand Ch 7 (only 10 pages)
Class 7	HW 12: Prog EX 6 12	HW 10
Oct 5	TIW 12. FIOS EX 0-12	Duiz Ch 6
	Chapter 7 Input validation – only 13 pages	
	Prog EX 7-5 in class – edit Rock, Paper,	Extra Cradit Python Turtle design
	Scissors	Extra Credit Lython program for graps
	HW 13: Prog EX 7-1	Extra Credit Pytholi program for craps
	No Quiz for chapter 7	
	Practice Midterm handout to try chap 1-7	
	NOTE: no homework/quizzes accepted after	
	midterm	
Class 8	Review practice midterm	HW 12
	Other Questions on chapters 1-7	HW 13
Midterm		Midterm Exam
Oct 12		Mod 3 CheckPoint Extra Credit for those behind
Oct 12	Midterm chapters 1-7 - 50 points 6:00-10:30 PM	1
		Extra Credit – get BB – Week 7 p341-342.py – 5
		points extra credit if can make program not fail if
		"abc" entered.

Mod 4	Go over Midterm -5 minutes	Read Ch 8
$C_{1} = 0$	Arrays Chapter 8 Amou/Lists and Elouisherting Coss	
Class 9	with Repetition – loops and arrays like pizza	
Oct 19	and beer or pizza and pop. Prog EX 8-3 in	
	class Group exercise	
	Help on Lottery program	
	Review Your Point Total	
	From here and for the rest of class just submit	
	Python with test cases for homework	
	Quiz Chapter 8	
	HW 14: Prog EX 8-2	
	More Arrays Prog EX 8-3 in class parallel	
	TIC-TAC-TOF	
	HW 15: Prog FX 8-6	
	Tr: • 1	
	Finish up arrays Chapter 0 Secting and Security Arrays	Read Ch 9
Class 10	Swapping 2 array elements	HW 14
Oct 26	Ouiz Chapter 9	Extra Credit PROG EX 8-3 Rainfall months with
	Finish up Chapter 9 and review	highest and lowest
	HW 16: Prog EX 9-2	
	HW 17: Prog EX 9-4	
	Do Not come to COD Online with collaborate	Pand Ch 10
	DU AUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU	
MOD 5	ultra	HW 15
MOD 5 Class 11	ultra Chapter 10 Files	HW 15 Quiz Ch 9
MOD 5 Class 11	ultra Chapter 10 Files Prog Ex 10-1	HW 15 Quiz Ch 9 HW 16
MOD 5 Class 11 Nov 2	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential	HW 15 Quiz Ch 9 HW 16 HW 17
MOD 5 Class 11 Nov 2 NOTE	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files	HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind
MOD 5 Class 11 _{Nov 2} NOTE CLASS	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10	HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of
MOD 5 Class 11 _{Nov 2} NOTE CLASS	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review	HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class)
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2	HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class)
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total	HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class)
MOD 5 Class 11 _{Nov 2} NOTE CLASS ONLINE	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and	HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class)
MOD 5 Class 11 _{Nov 2} NOTE CLASS ONLINE	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and	HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11 HW 20: Prog EX 11-1	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11 HW 20: Prog EX 11-1 Chap 12 Text Processing with String data	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11 HW 20: Prog EX 11-1 Chap 12 Text Processing with String data Example Prog EX 12-2 scan for periods –	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11 HW 20: Prog EX 11-1 Chap 12 Text Processing with String data Example Prog EX 12-2 scan for periods – "whitespace" Flowchart Einich Taxt Processing	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11 HW 20: Prog EX 11-1 Chap 12 Text Processing with String data Example Prog EX 12-2 scan for periods – "whitespace" Flowchart Finish Text Processing NOV 13th last day to withdraw	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11 HW 20: Prog EX 11-1 Chap 12 Text Processing with String data Example Prog EX 12-2 scan for periods – "whitespace" Flowchart Finish Text Processing NOV 13th last day to withdraw HW 21: Prog Ex 12-3	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18
MOD 5 Class 11 Nov 2 NOTE CLASS ONLINE Class 12 Nov 9	ultra Chapter 10 Files Prog Ex 10-1 Examples of Python programs with sequential ASCII files Quiz Chapter 10 Finish up Chapter 10 and review HW 18:Prog EX 10-1 HW 19: Prog EX 10-2 Review point total Chapter 11 Menu Driven programming and debugging Example 11-4 and Book example on Metric Conversion Student scores example Quiz Chapter 11 HW 20: Prog EX 11-1 Chap 12 Text Processing with String data Example Prog EX 12-2 scan for periods – "whitespace" Flowchart Finish Text Processing NOV 13th last day to withdraw HW 21: Prog Ex 12-3 HW 22: Prog EX 12-1	Read Ch 10 HW 15 Quiz Ch 9 HW 16 HW 17 Mod 4 CheckPoint Extra Credit for those behind Extra Credit Tic Tac Toe (I will provide part of program and go over in class) Read Ch 11 Read Ch 12 Quiz Ch 10 HW 18

8/15/23
0/10/20

MOD 6	Chap 14 OOP	Read Ch 14
Class 12	14-2 algorithmic workbench	HW 19 Ouiz Ch 11
Class 15	L vnda Video on OOP	HW 20
Nov 16	Ouiz Chapter 14	Quiz Ch 12
	Chap 14 OOP and review Prog EX: 14-1 in class	HW 21
	HW 23:Prog EX: 14-1	Mod 5 CheckPoint Extra Credit for those behind
	6	Extra Credit code example program 11-6 Coffee Inventory in Python
Nov 23	Thanksgiving Holiday	
No Class		
	Chap 14 Finish	Read Ch 15
C 1 14	HW 24: Prog Ex 14-2	Quiz Ch 14
Class 14	Perhaps bit more on OOP Chapter 15 GUIs	HW 22
Nov 30	Review point total	
	GUI Example of Metric conversion program	
	Practice Exam given out	
	Chapter 15 GUI and review	HW 23
Class 15	Quiz Chapter 15 HW 25: Prog EX 15, 1 in class	HW 24 HW 25 in class
Class 15	HW 26: Prog EX: 15-3	Mod 6 CheckPoint Extra Credit for those behind
Dec 7		can schedule help session before final exam
	Practice Final Exam review for final Help to	
	complete all homework but should have almost	
	an done now	HW 26
		Quiz Ch 15
Class 16	Final Exam 6:00 10:30 as nor COD schedula	Extra Credit figure 15-8 p 721 add formatting to
Final	That Exam 0.00-10.30 as per COD schedule	dollar amount and input validation like in program 15-3 shown in class
Exem		Extra Credit prog Ex 11-1 Language translator as
Exam		GUI – very similar to metric example shown in
Dec 14		class
	Final Graded by 5:00 PM 12/15 so you can	
Dec 16th	see if you may want to do extra credit for a	
Dec 10	nigner grade Complete all assignments and extra credit - all work in – Dec 16 th 11:59 PM	
	I will be available in school for help Friday or	
	Sat if needed	

Course Expectations

1. All assignments, (including assessments, projects, labs, and any related course work) must be submitted on or before the given due dates for full credit – see 2. below

12

College of DuPage 8/15/23

- 2. Late assignments are not acceptable unless on medical (with a doctor's letter) or emergency situation (with proof).
- 3. When a quiz or assignment due date has passed, it may disappear from the class Blackboard (Bb). Please do not ask the instructor to reset the assignment due date or inform the instructor that you can no longer see the assignment on the Bb.
- 4. To receive full points, a complete assignment must be submitted by following the assignment's requirements and specifications.
- 5. Unless requested by the instructor, no assignments should be sent to the instructor's email address. Any assignments sent to the instructor's email without permission will be disregarded.
- 6. All assignments must be submitted on the class BB. For programming courses, all programs source code listings must be presented with the program output/result.
- 7. Submitting assignments in the order assigned will ensure progression according to the academic design of the course.
- 8. Discussions and collaborations are permitted. However, you must do your own assignments to learn and master the material. Dishonest work will be disciplined according to the university's policy.
- 9. If you are caught copying someone's work, you will be placed in one of the following possibilities (depending on the work):
 - a. You get a zero for your current assignment.
 - b. You will get one letter grade less in the course, i.e., if you get an A, you will get a B
 - c. You will be expelled from the university.

If you are caught copying above, all of your previous work relating to the course will be reexamined and re-evaluated. All of your future work in the course will be closely scrutinized.

- 10. You understand the grading criteria as mentioned in the syllabus above. The grading distribution will not be curved.
- 11. Your attitude and behavior relating to the course will be considered when a borderline grade befalls to boost up your grade via extra credit class participation to the next higher letter grade. Your grade is based on point scale, and extra credit after the final is the only way to get to the next higher grade.
- 12. An incomplete grade is allowed only in last two weeks of class due to an unforeseen event. Being behind on homework is not an unforeseen event.
- 13. You are responsible for withdrawing from the course if no longer attend the class. Please check the university's academic calendar on the last day allowed to withdraw from the class.
- 14. Bad planning on your part is not an emergency on the instructor's part.