

TEXARKANA COLLEGE

Syllabus: **Programming Logic and Design**

Course Number: **ITSE 1329 Section 01**

Semester & Year: **Spring 2020**

Instructor Information

Name: **Dr. Theresa McDonald, Professor**
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Office Hours: Posted in classroom and office door

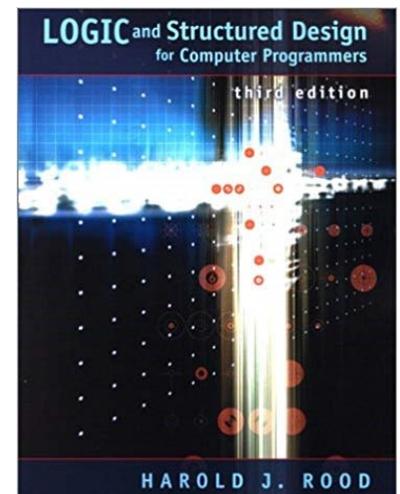
Course Description

Problem-solving applying structured techniques and representation of algorithms using design tools. Includes testing, evaluation, and documentation.

Textbook Information

Chapter and pages out of Rood, H.J. (2001). Logic and structured design for computer programmers (3rd ed.). Pacific Grove, CA: Brooks/Cole. ISBN 0-534-37386-0.

Bookstore will have a packet, but you may use a book if you can receive a better price online or from a former student.



Student Learning Outcomes for the Course

1. Identify the major concepts of structured programming
2. Illustrate the general concepts of structured design
3. Use design tools
4. Solve problems using logic techniques; and
5. Produce documented algorithms

These objectives will be measured by completion of:

- Daily homework assignments/quizzes,
- Three test, and
- Comprehensive final exam.

Teaching Methods:

- **Lectures:** It is the student's responsibility to read the assigned textbook material before attending class. Be prepared to demonstrate your assignment solutions.
- **Assignments/Participation:**
Homework assignments must be completed prior to the beginning of class on the date for which they are due. The student should develop a written response to each assigned homework problem. Late homework will not be accepted. To receive credit, the student may be required to:
 1. submit the entire assignment to the instructor,
 2. verbally explain a problem solution when called upon, or
 3. present a problem solution on the whiteboard when called upon.
- **Tests:** Three tests will be given which cover text material and homework problems. Tests will be closed book/notes. A "make up" test may be given only with prior instructor approval.
- **Exam:** Comprehensive final exam will be given covering the semester text material and homework problems. Exam will be closed book/notes.

- **Quizzes, Unannounced Tests, or Assignments:** An in-class exercise may be given during any class period. The student should be prepared to be tested upon any previous assignments. There is no provision for "make up" of these quizzes, tests, and assignments.

Student Requirements for Completion of the Course and Due Dates (See Pages 2 & 6)

For the student's convenience and ease of access, a table containing all exams and assignment has been placed on the last page of this syllabus. A space for the grade for each of these tasks is also provided in order for the student to be able to discern his/her class average at any time. This information is also provided on myTC in the Jenzabar eLearning LMS section for this class.

Student Assessment & Grading Scale

Percentage	From	Final Grade	Average
30%	Average of Quizzes, Unannounced Tests, and Assignments	A	90 - 100
		B	80 - 89.99
45%	Average of 3 Tests	C	70 - 79.99
		D	60 - 69.99
25%	Final Exam	F	Below 60

Tentative Course Outline - These dates and assignments are tentative and subject to change with the instructor's discretion.

WEEK	DATES	Tuesday	Thursday
1	Jan 21 & 23	Introduction, Syllabus,	Flowcharts, variables
2	Jan 28 & 30	Loops, counters	Accumulators, flags
3	Feb 4 & 6	Error messages & Review	Test on ch. 1
4	Feb 11 & 13	Structured flowcharts	Structured flowcharts
5	Feb 18 & 20	Tables	Control breaks
6	Feb 25 & 27	Control breaks	Control breaks
7	Mar 3 & 5	Truth functional logic	Truth functional logic
8	Mar 10 & 12	Equivalence, Tautologies	Tautologies & contradictions
9	Mar 17 & 19	Spring Break	
10	Mar 24 & 26	Decision tables	Decision tables
11	Mar 31 & Apr 2	Test on ch. 2, 3, & 6	Pseudocode
12	Apr 7 & 9	Pseudocode	One-dimensional arrays
13	Apr 14 & 16	Array processing	Multidimensional arrays (Last day to drop Apr 17)
14	Apr 21 & 23	Bubble sort & binary sort	Bubble sort & binary sort
15	Apr 28 & 30	Bubble sort & binary sort	Searches
16	May 5 & 7	Test on ch. 8 & 9	Comprehensive final exam review
17	May 12 11:00am - 1:30pm	FINAL EXAM - Tuesday	

Username and Passwords

Use your myTC Username and Password to access TC computers (ie...b.jones5555). Your email is your myTC username followed by @texarkanacollege.edu (ie...b.jones5555@texarkanacollege.edu).

When logged on to TC's network on campus, you will have a My Documents folder to store your files if needed. An INBOX in your My Documents will have auto-created folders for each of your classes and instructors. Those folders may be used by the instructors to deliver content.

Absentee Policy

Your punctual attendance and your participation are required for successful completion of the course. You may be dropped from the course without notice after a total of two weeks of class absences (3 times tardy counts as one absence). Only currently enrolled students are allowed to attend classes and labs. Any student who officially withdraws from the course before the drop date and before the instructor has dropped the student from the course will receive a grade of "W" unless instructor drops the student with an "F" for cheating.

Any student that just stops coming to class and chooses to make an F, the last date they attended will be listed on the final grade sheet and they will most likely have to pay back money received from grants or scholarships.

Texarkana College's absentee policy allows instructors to withdraw a student from a course due to excessive absences. If a student leaves and returns during class or leaves the class before the class is over, he/she **may** be considered absent. Three tardies constitute one absence. It is the student's responsibility to check the syllabus for each instructor's tardy policy.

In some workforce/vocational areas, such as nursing and cosmetology, certification requirements necessitate an absentee policy that is more stringent than the institutional policy. In these instances, the matter of certification takes precedence over local policies, since certification policies are established by the State of Texas.

Faculty members **are not** obligated to provide opportunities for students to make-up missed assignments and exams as a result of a student's absence from class. The institution is not required to take attendance with the exception of workforce/vocational areas, where certification requirements require taking attendance. However, experience demonstrates that regular attendance enhances academic success. As such, students are expected to attend each meeting of their registered courses.

A student should not stop attending a class without formally withdrawing from the course by the institutions published Last Day for Students to Drop. If a student stops attending class after the published Last Day for Students to Drop, the student **may** receive a grade of "F" in the class. The instructor will submit the last date of attendance for students receiving a grade of "F" or "W".

Withdrawal from a course(s) may affect a student's current or future financial aid eligibility. Students should consult the Financial Aid Office to learn both short and long term consequences of a withdrawal.

Maximum Allowable Absences

After official registration, the following number of unexcused absences will be the maximum allowable before a student **may** be dropped from the class. Mandated program certification requirements detailed for certain programs regarding the maximum allowable unexcused absences takes precedence over the following information. Three tardies count as one absence.

A course that meets for the full 16 week semester

Class or lab meets.....An instructor may withdraw student from course if absences exceed

Once a week (night or Friday classes)	2 absences
Twice a week (MW or TR classes)	4 absences
Three times a week (MWF or TRF classes)	6 absences
Four times a week (MTWR classes)	8 absences

Excused Absences

A student's absence due to school trips and/or school business will not be counted against a student's allowable number of absences. Military duty and absences for Holy Days (FBD LEGAL) are covered in a separate section of the catalog and the student handbook. These are the only excused absences that are considered by Texarkana College. Responsibility for work missed for any absence is placed on the student. Instructors are required to allow students to make up work missed if the absence is due to military duty* or religious holy days when students follow the correct notification procedures. Instructors are not required to allow students to make up work for absences due to other reasons. Make-up policies are listed in each individual instructor's syllabus.

**Students interested in Health Occupations should check with the division chair prior to entering the program.*

Make-up Policy

The student is responsible for work missed because of illness, school business, religious holidays, military service or other circumstances and must make arrangements with their instructor prior to their absences. No incomplete grades will be given for failure to attend and participate. If you must quit, you should initiate an official withdrawal in the Admissions Office prior to the last date to drop courses: **Friday, April 17, 2020.**

Class Assignments must be turned in on time. Tests must be made up within 1 week of the scheduled time the class takes the test or by a date set by your instructor provided that the required notification is given to the instructor.

Academic Integrity Statement

Scholastic dishonesty, involving but not limited to cheating on an exam, plagiarism, collusion, or falsification of records will make the student liable for disciplinary action after being investigated by the Dean of Students. Proven violations of this nature will result in the student being dropped from the class with an "F".

This policy applies campus wide, including TC Testing Center, as well as off-campus classroom or lab sites, including dual credit campuses.

Cheating will not be tolerated. The instructor will drop any student involved in cheating from the course with a grade of "F." All assignments must represent the student's own work. A student may discuss assignments with other students to gain a better understanding of the problem. However, copying assignments, in whole or in part, from ANY source, without explicit instructor direction, is considered plagiarism and will result in a failing grade for the course and possible college disciplinary action.

Classroom Rules of Conduct

You are to be respectful of your instructor and fellow classmates at all times.

As a courtesy, please do not talk, type, or print while the instructor is talking to the class or when a student is asking a question which pertains to the class.

Students should make arrangements with the instructor in advance if they need to leave class before dismissal. There will be a zero tolerance policy for any behavior that is disruptive of classroom learning. This includes ANY use of vulgar language or rude behavior toward instructor or any other student in the class.

- You are to refrain from “surfing” the Web or accessing any social network sites during class, unless directed by your instructor.
- You are to turn off cell phones, pagers, and any type of audio players.
- You are to remove headphones or ear buds.
- You are encouraged to work together to solve problems; however, you must complete your own work. **Cheating will result in an F for all involved** in the act even if the person is in another class or previous semester.

Additional Classroom Policies

Students are not allowed to bring food/drinks into the classroom/lab, or Testing Center. The cost of damage to computer equipment and furniture can be significant due to a minor mishap. Students are not allowed to bring a cellular phone or other wireless communication device for use in a classroom/lab without prior written approval from the instructor.

The viewing of pornography is prohibited and will result in being dropped from class with the grade of "F", and the Dean of Students will take disciplinary action. The use of student e-mail for obscene or pornographic purposes is prohibited. Any form of harassment will result in dismissal from class with the grade of "F", and the Dean of Students will take disciplinary action. The Computer Lab is under camera surveillance.

Classroom Cell Phone Policy:

Students should turn cell phones off or at least put them on silent. **Do not conduct phone calls or text in class.** It can wait. If you must take a call or text, quietly leave the room and return when finished but not during a quiz or exam. Emergency calls for you should go through campus police department at 903-798-3330.

Disability Act Statement:

Texarkana College complies with all provisions of the Americans with Disabilities Act and makes reasonable accommodations upon request. Please contact Tonja Blaise at 903-823-3349 or go by the Department of Disabilities Services located in the Palmer Memorial Library for personal assistance.

If you have an accommodation letter from their office indicating that you have a disability which requires academic accommodations, please present it to me so we can discuss the accommodations that you might need for this class. *It is best to request these changes at the beginning if not before the start of class* so there is ample time to make the accommodations.

Basic Needs Security Statement

Any student who has difficulty affording groceries or accessing enough food to eat every day, or who lacks a safe and stable place to live and believes this may affect their performance in this course or ability to remain in school, is urged to contact Tonja Blase, Director of Student Retention, at 903.823.3349 for support. Furthermore, please notify the professor if you are comfortable in doing so.

Complaint Process

The complaint process can be found on the Texarkana College website.

Technical Assistance

Help Desk link from TC's main webpage: <https://www.texarkanacollege.edu/helpdesk>
Phone: 903-823-3030, Email: helpdesk@texarkanacollege.edu

Financial Aid:

Attention! Dropping this class may affect your funding in a negative way! You could owe money to the college and/or federal government. Please check with the Financial Aid office before making a decision.

Student Requirements for Completion of the Course (Cont. from page 2)

Assignments	Pages	Problems	Grade	Score
HW1	8-9	1, 2		Add the grades of all Homework Assignments (HW), then take that total and divide by 29 to obtain the Average: ____ This average may include some quizzes or other assignments so the divide by number would change to include those. Compute Homework Assignment Score by multiplying average by 30% = ____
HW2	24	1, 2, 3		
HW3	25	4, 5, 6		
HW4	32-33	1, 2, 3, 4		
HW5	36-37	Review questions		
HW6	48	1, 2, 3, 4, 5, 6		
HW7	49 59	7, 8, 9, 10, 11 1.A, B, C		
HW8	60	2.A, B, C, D, 3.B, C, D		
HW9	62 & 72	4.A & 1.A, 2.A, B		
HW10	73	Review questions		
HW11	72 80	3.A 1		
HW12	80	2, 5, 7		
HW13	86-87	1.A, 2.A		
HW14	88	Review questions		
HW15	150	1, 2, 3, 4, 5		
HW16	153-154	1, 2		
HW17	157	1, 2		
HW18	158	3		
HW19	191-192	Review questions		
HW20	190-191	1, 2, 3, 4		
HW21	251	2.B		
HW22	250	1.A, B, C, 2.A, C		
HW23	253 & 272	3 & Review questions		
HW24	269-270	2.A, C		
HW25	279	1.A, B, 2.A, B, 3. All		
HW26	287	1, 3, 5		
HW27	308 & 321	1 & 2		
HW28	321	3.A, C		
HW29	322-323	Review questions		
Test 1	1-37	Ch. 1		
Test 2	38-192	Ch. 2, 3, 6		
Test 3	238-323	Ch. 8, 9		
Final Exam		Comprehensive		