

SCANS COMPETENCIES: C1, C2, C3, C4, C5, C6, C7, C8, C15, C16, C17, C18  
F1, F2, F3, F4, F5, F6, F7, F8, F9 , F10, F11, F12, F15, F16

**South Plains College**  
**ITSE 1329**  
**Programming Logic and Design**  
**Course Syllabus**  
**Fall 2019**

**Course Prefix and Number:** ITSE 1329

**Section:** 151

**Course Title:** Programming Logic and Design

**Course Credit:** 3 Hours

**Course Timeline:** August 26 – December 12, 2019

**Professor:** Dr. Patrick Logue

**Office Location:**

South Plains College

Lubbock Center

Office # LBC 120B

3907 Avenue Q

Lubbock, TX 79412

**Office Hours:**

Monday: 9:00 AM to 12:00 PM and 12:30 PM to 2:30 PM in Office # LBC 120B

Tuesday and Thursday: 12:30 PM to 1:00 PM in Office # LBC 120B

Friday: 10:00 AM to 12:00 PM in Office # LBC 120B

Or by appointment

**Telephone:** 806 – 716 – 4669

**E-mail:** [plogue@southplainscollege.edu](mailto:plogue@southplainscollege.edu)

**Logistic:**

**Section 151:** Internet

**Blackboard's URL:** <https://southplainscollege.blackboard.com/>

**Course Description**

**(3:3:1):** This course offers a disciplined approach to problem-solving by applying structured techniques and representation of algorithms using appropriate design tools.

Methods of testing, evaluation, and documentation are also emphasized. Semester

Hours: 3, Lecture Hours: 3, and Lab Hours: 1

### **Course Goals:**

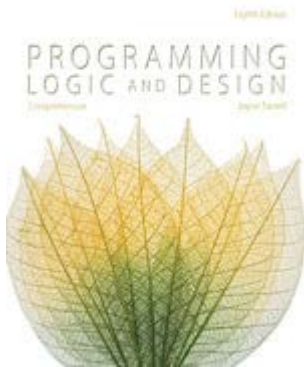
- Identify and use object oriented and structured techniques.
- Use appropriate software to construct flow charts and structure charts to describe programs and modules.
- Understand the hierarchy of data and how data is stored in a computer.
- Research and critique current issues in programming.
- Create rudimentary structured and object oriented programs.

### **General Course Information:**

The course will consists of demonstrations, web delivered content, and multimedia presentations.

### **Course Textbook:**

Farrell, J. (2015). Programming Logic and Design - Comprehensive, 8<sup>th</sup> Edition, Cengage Learning  
ISBN-13: 9781285776712



Click on the picture of the textbook above to see more information about the textbook.

**Course Materials:** computer, Internet access, flash drive, paper, pen or pencil, and an email account.

**Course Software:** [Microsoft Office](#) (Word) and [Google's Chrome](#).

Optional - Microsoft Office Visio Professional or this free software program, [Diagram Designer](#).

### **Class Attendance Policy**

Class attendance, even online, is extremely important in order to meet the objectives of this course. **A STUDENT IS RESPONSIBLE FOR INITIATING HIS OR HER OWN WITHDRAWAL, if that becomes necessary.** If a student is administratively withdrawn from the class by the professor, the grade appearing on the transcript will be at the professor's discretion, an 'X' or 'F'.

**Students will be dropped from an online course if they:**

1. Do not sign in the first week of the semester.
2. Miss one week of class work.
3. Miss a schedule exam.

Also, a student will be administrative withdrawn from the course if the professor believes that the student will not pass the course.

\*If you have any difficulties during the semester please inform the professor. The professor will work with you in order to complete the course.

Students are expected to attend all classes in order to be successful in a course. When an unavoidable reason for class absence arises, such as illness, an official trip authorized by the college or an official activity, the professor may permit the student to make up work missed. It is the student's responsibility to complete work missed within a reasonable period of time as determined by the professor. Students are officially enrolled in all courses for which they pay tuition and fees at the time of registration. Should a student, for any reason, delay in reporting to a class after official enrollment, absences will be attributed to the student from the first class meeting.

Students, who enroll in a course but have "Never Attended" by the official census date, as reported by the faculty member, will be administratively dropped by the Office of Admissions and Records. A student who does not meet the attendance requirements of a class as stated in the course syllabus and does not officially withdraw from that course by the official census date of the semester, may be administratively withdrawn from that course and receive a grade of "X" or "F" as determined by the professor.

It is the student's responsibility to verify administrative drops for excessive absences through MySPC using his or her student online account. If it is determined that a student is awarded financial aid for a class or classes in which the student never attended or participated, the financial aid award will be adjusted in accordance with the classes in which the student did attend/participate and the student will owe any balance resulting from the adjustment.

**THE PROFESSOR RESERVES THE RIGHT TO CHANGE ANY PORTION OF THIS SYLLABUS AT ANY TIME.**

## **Assignment Policy**

Assigned chapters are to be read prior to coming to class. Please refer to this syllabus to see what you missed. I will not repeat lectures or assignments outside of the allotted class period. This course is an online course, which means you, the student, will do the majority of your work on your own time.

Assignments must be submitted on time. Reduced or no credit will be given for late assignments. Assignments will be turned into the professor through South Plains College's Distance Education web site (Blackboard) at schedule times. All assignments must be labeled. Do not make me guess what you are turning in to me. Once the assignment is closed, submission of your homework will not be accepted. Assignments must be submitted on time or before that time.

## **Examination Policy**

There will be four exams for this course. The fourth exam will be your final exam for this class. There will also be four quizzes for this course. The quizzes will prepare you for the exams. The quizzes and exams will be offered through South Plains College's Distance Education web site (Blackboard) at schedule times. There will be no makeup exams during this semester.

All students will take the final exam. Otherwise, the professor has the right and the discretion of giving the student an "F" in the course if he or she does not take the final exam.

## **Grading Policy**

### **The final grade will be calculated as follows:**

40% - The average of the homework assignments

20% - The average of the 4 quizzes

40% - The average of the 4 exams

Equals = 100%

**Homework:** Add your grades on the homework assignments and divide the result by the number of homework assignments that were assigned to you in this class, which equals 45 assignments. Then, multiply this value by 0.40 = (40% of your final grade in the class).

**Quizzes:** Quiz 1, Quiz 2, Quiz 3, and Quiz 4

Add up your grades on the quizzes and divide the result by 4.

Then, multiply this value by 0.20 = (20% of your final grade in the class).

**Exams:** Exam 1, Exam 2, Exam 3, and Exam 4

Add up your grades on the exams and divide the result by 4.

Then, multiply this value by 0.40 = (40% of your final grade in the class).

**To calculate your final grade for the class:** Add together your 40% of the average homework grade (40% of the final grade), 20% of the average quiz grade (20% of the final grade), and 40% of the average exam grade (40% of the final grade).

Numeric grades will be given on all homework assignments, all quizzes, and exams. In addition, you will receive a letter and numeric grade for your final grade in the course.

Grade distribution is as follows:

90 - 100 = A

80 - 89 = B

70 - 79 = C

60 - 69 = D

0 - 59 = F

It is the responsibility of each student to monitor his or her progress in the course and to request conference time with the professor if there are any questions, concerns, or problems.

### **Additional Information**

Copying or removing copyright materials or exams from the computer labs is in violation of the law and is strictly prohibited.

\*No children will be allowed in the classroom.

\*No food or drinks are allowed in the classrooms or computer labs.

#### **4.1.1.1. Diversity Statement**

In this class, the professor will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

#### **4.1.1.2. Disabilities Statement**

Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made.

In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office in Levelland (Student Health & Wellness Office) 806-716-2577, Reese Center (also covers the Lubbock Center) Building 8: 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611, or the Health and Wellness main number at 806-716-2529.

If any student has a serious medical condition, they should inform the professor.

### **Internet (online) and hybrid classes**

A student who enrolls in an online class that may need classroom accommodations is strongly encouraged to schedule an intake interview with the Special Services Department before enrolling in an online course or prior to the add/drop date for this semester.

**Student Conduct:** Expected student conduct is as outlined in the SPC catalog.

**Academic Integrity:** It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present their own work, which he or she has not honestly performed, is regarded as a most serious offense and renders the offender liable to serious consequences, possibly suspension. Students should refer to the SPC General Catalog policy regarding consequences for cheating and plagiarism (see “Academic Integrity” as well as “Student Conduct” sections in college catalog).

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## SOUTH PLAINS COLLEGE, TECHNICAL DIVISION

### SCANS Competencies

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**RESOURCES**: Identifies, organizes, plans, and allocates resources.

- C1 **Time**: Selects goal-relevant activities, ranks them, allocates time, and prepares and follows schedules.
- C2 **Money**: Uses or prepares budgets, makes forecasts, keeps records, and makes forecasts, keeps records, and makes adjustments to meet objectives.
- C3 **Materials and Facilities**: Acquires, stores, allocates, and uses materials or space efficiently.
- C4 **Human Resources**: Assesses skills and distributes work accordingly, evaluates performance and provides feedback.

**INFORMATION**: Acquires and uses information.

- C5 Acquires and evaluates information.
- C6 Organizes and maintains information.
- C7 Interprets and communicates information.
- C8 Uses computers to process information.

**INTERPERSONAL**: Works with others.

- C9 Participates as members of a team; contributes to group effort.
- C10 Teaches others new skills.
- C11 **Serves clients/customers**: Works to satisfy customer's expectations.
- C12 **Exercises Leadership**: Communicates ideas to justify position, persuades and convinces others, responsibly challenges existing procedures and policies.
- C13 **Negotiates**: Works toward agreements involving exchanges of resources, resolves divergent interests.
- C14 **Works with Diversity**: Works well with men and women from diverse backgrounds.

**SYSTEMS**: Understands complex interrelationships.

C15 **Understands Systems**: Knows how social, organizational, and technological systems work and operates effectively with them.

C16 **Monitors and Corrects Performance**: Distinguishes trends, predicts impacts on system performance and corrects malfunctions, operations, diagnoses systems

C17 **Improves or Designs Systems**: Suggests modifications to existing systems and develops new or alternative systems to improve performance.

**TECHNOLOGY**: Works with a variety of technologies.

C18 **Selects technology**: Chooses procedures, tools or equipment including computers and related technologies.

C19 **Applies technology to task**: Understands overall intent and procedure for set-up and operation of equipment.

C20 **Maintains and troubleshoots equipment**: Prevents, identifies, or solves problems with equipment, including computers and other technologies.

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**SOUTH PLAINS COLLEGE, TECHNICAL DIVISION  
SCANS Foundation Skills**

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**BASIC SKILLS**: Reads, writes, performs arithmetic/mathematical operations, listens, and speaks.

F1 **Reading**: locates, understands, and interprets written information in prose such as documents, manuals, graphs, and schedules.

F2 **Writing**: communicates thoughts, ideas, information, and messages in written form; creates documents such as letters, directions, manuals, reports, graphs, and flow charts.

F3 **Arithmetic**: Performs basic computations; uses basic numerical concepts such as whole numbers, etc.

F4 **Mathematics**: Approaches practical problems by choosing appropriately from a variety of mathematical techniques.

F5 **Listening**: Receives, attends to, interprets, and responds to verbal messages and other cues.

F6 **Speaking**: organizes ideas and communicates orally.



**THINKING SKILLS:** Thinks creatively, makes decisions, solves problems, visualizes, knows how to learn, and reasons.

F7 **Creative Thinking:** Generates new ideas.

F8 **Decision Making:** Specifies goals and constraints, generates alternatives, considers risks, and evaluates and chooses best alternative.

F9 **Problem Solving:** Recognizes problems and devises and implements plan of action.

F10 **Seeing Things s Eye=in Mind:** Organizes and processes symbols, pictures, graphs, objects, and other information.

F11 **Knowing How to Learn:** Uses efficient learning techniques to acquire and apply new knowledge and skills.

F12 **Reasoning:** Discovers a rule or principle underlying the relationship between two or more objects and applies it when solving a problem.

**PERSONAL QUALITIES:** Displays responsibility, self-esteem, sociability, self-management, and integrity and honesty.

F13 **Responsibility:** Exerts a high level of effort and perseveres toward goal attainment.

F14 **Self-Esteem:** Believes in own self-worth and maintains a positive view of self.

F15 **Sociability:** demonstrates understanding, friendliness, adaptability, empathy, and politeness in group settings.

F16 **Self-Management:** Assesses self accurately, sets personal goals, monitors progress, and exhibits self-control.

F17 **Integrity/Honesty:** Chooses ethical courses of action.

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## CAMPUS GUIDELINES

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### CHILDREN ON CAMPUS

Many of the students attending classes at South Plains College are also parents who value the opportunity to participate in higher education. Sometimes students are faced with the decision of whether to remain at home with their children, bring children with them to class, or be absent from class. The following guidelines address concerns for the safety of children on campus and provide for an environment conducive to learning:

- 1) Students are not allowed to bring children to class and will be asked to leave in the interest of providing an environment conducive for **all** students enrolled in the class. Students are responsible for adherence to the attendance requirements set forth by the professor in the course syllabus.
- 2) Children may not be left unattended. In order to provide for the safety of children on campus, parents or other guardians are responsible for supervising children while utilizing services or conducting business on campus.
- 3) Disruptive children will not be allowed to interfere with college business. Parents or other guardians are responsible for supervising and controlling the behavior of children they have brought on campus.

### AMERICANS WITH DISABILITIES ACT STATEMENT

All students with disabilities, including but not limited to physical, psychiatric or learning disabilities, who wish to request accommodations in this class should notify the Special Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Coordinator of Special Services. For more information, call or visit the Special Services Office in Rooms 113-C or 112 at the Reese Center, ext. 4654 or 4675. On the Levelland Campus, the Special Services Office is located in the Student Services Building, ext. 2529.

## **DIVERSITY STATEMENT\***

In this class, the professor will establish and support an environment that values and nurtures individual and group differences and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world, and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

(\*Developed by the Title III summer 2001 participants as part of the training opportunity, May-June 2001, South Plains College).

## **GENERAL SAFETY ON CAMPUS**

South Plains College recognizes the importance of safety on campus. The protection of persons and property is a responsibility which we all share. Personal safety begins with the individual. The following guidelines are intended to assist you in protecting yourself and to encourage practices that contribute to a safe environment for our campus community.

- Never leave your personal property unsecured or unattended.
- Look around and be aware of your surroundings when you enter and exit a building.
- Whenever possible, avoid walking alone, particularly after dark. Walk to your vehicle with other class members or request that the Security Guard walk you to your car.
- When approaching your vehicle, keep your keys in your hand; look under your car and in the back seat and floorboard. Lock the doors as soon as you are inside your car.

## **FOOD AND DRINK IN CLASSROOMS**

It is the policy of South Plains College not to permit food or drink in the classrooms or laboratories.

**In case of emergency, contact the following numbers but DO NOT leave a voice mail message:**

**Levelland Campus: 894-9611, ext. 2338**

**Lubbock Center: 747-0576, ext. 4677**

**Reese Center: (mobile 893-5705) and 885-3048, ext. 2923**