



STARK STATE COLLEGE

GENERAL SYLLABUS

Course Information

Course Name: Programming Logic and Problem Solving
Course Number: CSE122

Required Materials

Textbook(s): The CSE 122 course participates in the Stark State Instant Access program. Through this program, every student receives discounted access to MindTap and the eBook and is charged on their student account for this access. **Therefore, students do not need to purchase any additional materials, nor will you need to register an access code.**
Note - there are two books used in this class, both automatically linked to the course through MindTap and requiring NO additional purchases.

Book 1: Programming Logic & Design, Comprehensive 9th Edition, Joyce Farrell
 ISBN 9781337102070

Book 2: Microsoft Visual Basic Programs to Accompany Programming Logic and Design, 8th Ed. Jo Ann Smith, ISBN 9781285867397

Required Readings: None

Additional Materials: Microsoft Visual Studio is required. In order to install Microsoft Visual Studio, students must use a PC (the software will cannot be installed on a Mac). Students who have a Mac can use virtualization software such as VMware Fusion to run a copy of Windows on their computer. Students needing VMware Fusion do have access to this software free of charge but will need to create an account. If you are planning on doing this, please contact your instructor the first week of the class.

Course Outline/Calendar

The date of coverage and order of coverage may be modified based on the faculty member and events beyond the control of faculty members that interfere with class times and teaching.

16-Week Calendar

Week	Chapter/Topic/Lab
Week 1	Topic: Overview of Computers, Programming, Visual Basic and the Visual Studio IDE <ul style="list-style-type: none"> Assigned Reading: All materials in the “Start Here” folder, Chapter 1 in Programming Logic and Design (TEXTBOOK 1), Chapter 1 in Microsoft Visual Basic Programs (TEXTBOOK 2) Assigned: Chapter 1 Quiz, Introduction Discussion Forum (Extra Credit) Activity: Download Visual Studio 2022

Week	Chapter/Topic/Lab
Week 2	Topic: Elements of High-Quality Programs <ul style="list-style-type: none"> Assigned Reading: Chapter 2 in Programming Logic and Design (TEXTBOOK 1) Assigned: Chapter 2 Programming Logic Assignment
Week 3	Topic: Creating Simple Programs with Variables, Operators, and Sequential Statements <ul style="list-style-type: none"> Assigned Reading: Chapter 2 in Microsoft Visual Basic Programs (TEXTBOOK 2) Assigned: Chapter 2 Quiz, Chapter 2 Visual Basic Assignment
Week 4	Topic: Understanding Structure <ul style="list-style-type: none"> Assigned Reading: Chapter 3 in Programming Logic and Design (TEXTBOOK 1) Assigned: Chapter 3 Programming Logic Assignment
Week 5	Topic: Writing Structured Visual Basic Programs <ul style="list-style-type: none"> Assigned Reading: Chapter 3 in Microsoft Visual Basic Programs (TEXTBOOK 2) Assigned: Chapter 3 Quiz, Chapter 3 Visual Basic Assignment
Week 6	Topic: Exam 1 & Making Decisions Part 1 <ul style="list-style-type: none"> Assigned Reading: Chapter 4 Sections 4.1-4.3 in Programming Logic and Design (TEXTBOOK 1) Assigned: Exam 1, Chapter 4 Discussion Forum
Week 7	Topic: Making Decisions Part 2 <ul style="list-style-type: none"> Assigned Reading: Chapter 4 Sections 4.4-4.8 in Programming Logic and Design (TEXTBOOK 1) Assigned: Chapter 4 Programming Logic Assignment
Week 8	Topic: Writing Programs that Make Decisions <ul style="list-style-type: none"> Assigned Reading: Chapter 4 in Microsoft Visual Basic Programs (TEXTBOOK 2) Assigned: Chapter 4 Quiz, Chapter 4 Visual Basic Assignment
Week 9	Topic: Looping <ul style="list-style-type: none"> Assigned Reading: Chapter 5 in Programming Logic and Design (TEXTBOOK 1) Assigned: Chapter 5 Programming Logic Assignment
Week 10	Topic: Writing Programs Using Loops <ul style="list-style-type: none"> Assigned Reading: Chapter 5 in Microsoft Visual Basic Programs (TEXTBOOK 2) Assigned: Chapter 5 Quiz, Chapter 5 Visual Basic Assignment
Week 11	Topic: Exam 2 & Arrays <ul style="list-style-type: none"> Assigned Reading: Chapter 6 in Programming Logic and Design (TEXTBOOK 1) Assigned: Exam 2, Chapter 6 Programming Logic Assignment
Week 12	Topic: Using Arrays in Visual Basic Programs <ul style="list-style-type: none"> Assigned Reading: Chapter 6 in Microsoft Visual Basic Programs (TEXTBOOK 2) Assigned: Chapter 6 Quiz, Chapter 6 Visual Basic Assignment
Week 13	Topic: Advanced Modularization Techniques <ul style="list-style-type: none"> Assigned Reading: Chapter 9 in Programming Logic and Design (TEXTBOOK 1) Assigned: Chapter 9 Programming Logic Assignment
Week 14	Topic: Programming with Advanced Modularization Techniques <ul style="list-style-type: none"> Assigned Reading: Chapter 9 in Microsoft Visual Basic Programs (TEXTBOOK 2) Assigned: Chapter 9 Quiz, Chapter 9 Visual Basic Assignment
Week 15	Topic: Object-Oriented Programming <ul style="list-style-type: none"> Assigned Reading: Chapter 10 in Programming Logic and Design (TEXTBOOK 1) Assigned: Chapter 10 Programming Logic Assignment
Week 16	Topic: Final Exam Assigned: Exam 3

8-Week Calendar

Week	Chapter/Topic/Lab
Week 1	Topic: Overview of Computers, Programming, Visual Basic and the Visual Studio IDE

Week	Chapter/Topic/Lab
	<ul style="list-style-type: none"> • Assigned Reading: All materials in the “Start Here” folder, Chapter 1 in Programming Logic and Design (TEXTBOOK 1), Chapter 1 in Microsoft Visual Basic Programs (TEXTBOOK 2) • Assigned: Chapter 1 Quiz, Introduction Discussion Forum (Extra Credit) • Activity: Download Visual Studio 2022 <p>Topic: Elements of High-Quality Programs</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 2 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Chapter 2 Programming Logic Assignment
Week 2	<p>Topic: Creating Simple Programs with Variables, Operators, and Sequential Statements</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 2 in Microsoft Visual Basic Programs (TEXTBOOK 2) • Assigned: Chapter 2 Quiz, Chapter 2 Visual Basic Assignment <p>Topic: Understanding Structure</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 3 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Chapter 3 Programming Logic Assignment
Week 3	<p>Topic: Writing Structured Visual Basic Programs</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 3 in Microsoft Visual Basic Programs (TEXTBOOK 2) • Assigned: Chapter 3 Quiz, Chapter 3 Visual Basic Assignment <p>Topic: Exam 1 & Making Decisions Part 1</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 4 Sections 4.1-4.3 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Exam 1, Chapter 4 Discussion Forum
Week 4	<p>Topic: Making Decisions Part 2</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 4 Sections 4.4-4.8 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Chapter 4 Programming Logic Assignment <p>Topic: Writing Programs that Make Decisions</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 4 in Microsoft Visual Basic Programs (TEXTBOOK 2) • Assigned: Chapter 4 Quiz, Chapter 4 Visual Basic Assignment
Week 5	<p>Topic: Looping</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 5 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Chapter 5 Programming Logic Assignment <p>Topic: Writing Programs Using Loops</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 5 in Microsoft Visual Basic Programs (TEXTBOOK 2) • Assigned: Chapter 5 Quiz, Chapter 5 Visual Basic Assignment
Week 6	<p>Topic: Exam 2 & Arrays</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 6 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Exam 2, Chapter 6 Programming Logic Assignment <p>Topic: Using Arrays in Visual Basic Programs</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 6 in Microsoft Visual Basic Programs (TEXTBOOK 2) • Assigned: Chapter 6 Quiz, Chapter 6 Visual Basic Assignment
Week 7	<p>Topic: Advanced Modularization Techniques</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 9 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Chapter 9 Programming Logic Assignment <p>Topic: Programming with Advanced Modularization Techniques</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 9 in Microsoft Visual Basic Programs (TEXTBOOK 2) • Assigned: Chapter 9 Quiz, Chapter 9 Visual Basic Assignment
Week 8	<p>Topic: Object-Oriented Programming</p> <ul style="list-style-type: none"> • Assigned Reading: Chapter 10 in Programming Logic and Design (TEXTBOOK 1) • Assigned: Chapter 10 Programming Logic Assignment <p>Topic: Final Exam</p> <ul style="list-style-type: none"> • Assigned: Exam 3