

**WAYLAND BAPTIST UNIVERSITY**  
**WBUOnline**  
**SCHOOL OF MATHEMATICS AND SCIENCES**

**Wayland Mission Statement:** Wayland Baptist University exists to educate students in an academically challenging, learning-focused, and distinctively Christian environment for professional success and service to God and humankind.

**Course Title and Number:** CSCI 1305-VC01 Introduction to Computer Science

**Term:** Summer 2022

**Name of Instructor:** Dr. Scott R. Franklin, Professor of Computer Science and Mathematics

**Office Phone Number and WBU Email Address:** 806-291-1130 (office), 806-252-3855 (cell/text)  
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**Office Hours, Building, and Location:** Moody Science Building, 121 (Plainview campus), Office hours as needed during summer. Email or call and the instructor should respond within 24 hours.

**Catalog Description:** Overview of the field of computer science, including concepts of computer programming with an emphasis on problem solving, critical thinking, logical reasoning, design and implementation techniques, and testing; background material if needed such as GUI operating system use and file and directory manipulation; and ethics issues facing computer science professionals. Programming will be done with a modern language. Suitable for non-majors with significant computer experience and for majors with no prior programming experience.

**Prerequisites:** None

**Required Textbook and Resources:** Fundamental Programming Concepts with zyLabs, by Frank Vahid and Roman Lysecky. (provided in Blackboard through VitalSource)

You must have access to a computer on which you can install the necessary development software.

**Course Outcome Competencies:** Upon completion of this course the student should be able to:

- Demonstrate grasp of basics of computer use and operation
- Demonstrate comprehension of programming and basic skill
- Understand and describe core areas of the computer science field
- Demonstrate ability to perform problem solving, critical thinking, and logical reasoning
- Understand ethics of computer use for ordinary users and professionals
- Explain the organization and use of networks, including the Internet and the World Wide Web.

**Attendance Requirements:** Students are expected to participate in all required instructional activities in their courses. In this course, your weekly assignments (including watching the videos, completing the reading, homework, programming labs, and quizzes) will be the measure of attendance. Any week in which a student does not complete any work, the student will be

considered “absent”. Any student absent 25% or more (i.e., non-participatory during 3 or more weeks of the term) will receive an F for the course.

**Statement on Plagiarism and Academic Dishonesty:** Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

**Disability Statement:** In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

### **Course Requirements and Grading Criteria:**

**Reading (Participation Activities):** Each week, there will be a chapter of material to read and complete in your textbook (e.g., ZyBook). The participation activities in each chapter that must be completed in order to receive credit. Assignments will be completed on the ZyBooks website which will be accessible through Blackboard.

**Homework (Challenge Activities):** In this textbook, the homework assignments that must be completed are called the Challenge Activities. These are also complete on Zybooks website accessible through Blackboard

**Labs (zyLabs):** In this course, there are a series of hands-on programming labs almost every week that must be completed for this portion of your grade. These labs are completed on the Zybooks website accessible through Blackboard.

**Weekly Quizzes:** At the end of each week of the course, you will be required to complete an online quiz covering the assignments from that week. The quizzes will be completed in Blackboard. You will have three attempts on each quiz. They are time limited but open book and open note.

**Final Project:** Selecting from a variety of options, develop a code solution to a problem or challenge using coding concepts learned in this course (i.e., variables, branching, loops, functions and/or arrays).

NOTE: This is the FUN part of the course, so pick something you enjoy!

**Exams:** During the course, there will be two major exams: a Midterm and a Final. Each test will cover approximately half the course. Both tests are to be taken in person at one of the external campuses, a testing center, or through an online proctoring system. They must be proctored by an approved representative of the University.

#### **Grading:**

10%	Reading (PA)
20%	Homework (CA)
20%	Labs (zyLabs)
20%	Weekly Quizzes
10%	Final Project
20%	Exams (2 at 10% each)

A: 90 – 100    B: 80 – 89    C: 70 – 79    D: 60 – 69    F: Below 60

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

### Tentative Schedule:

Week	Dates	Module	Assignments	Labs	Quiz
1	5/31 - 6/5	0. Getting Set Up	Slack, DB Intro, ZyBooks		
		1. Introduction	PA, CA	1.11, 1.12, 1.13	Week 1 Quiz (Ch 1)
2	6/6 - 6/12	2. Variables / Assignments	PA, CA	TBD	Week 2 Quiz (Ch 2)
3	6/13 - 6/19	3. Branches	PA, CA	TBD	Week 3 Quiz (Ch 3)
4	6/20 - 6/26	4. Loops	PA, CA	TBD	Week 4 Quiz (Ch 4)
5	6/27 - 7/3	5. Arrays	PA, CA	TBD	Week 5 Quiz (Ch 5)
		Midterm (Ch 1-4)			
6	7/5 - 7/10	6. User-Defined Functions	PA, CA	TBD	Week 6 Quiz (Ch 6)
			Project Proposal		
7	7/11 - 7/17	7. Troubleshooting Process	PA	TBD	Week 7 Quiz (Ch 7-8)
		8. Software Topics	PA	TBD	
8	7/18 - 7/23	Final Exam (Ch 5-8)	Project Submission		

\*PA: Participation Activity, CA: Challenge Activity

**Academic Honesty:** Disciplinary action for academic misconduct is the responsibility of the faculty member assigned to this course. The faculty member is charged with assessing the gravity of any case of academic dishonesty, and with giving sanctions to any student involved.

**Important Dates:**

June 6	Last day to drop without record
July 1	Last day to withdraw with "W"
July 15	Last day to withdraw with a "WP/WF"
July 23	Last Class

This syllabus is only a plan. The teacher may modify the plan during the course. The requirements and grading criteria may be changed during the course if necessary.

### Course Verse:

"And whatever you do or say, do it as a representative of the Lord Jesus, giving thanks through him to God the Father." Colossians 3:17 (NLT)