

# Syllabus

## CS 105 -The Logical Basis of Computing

### Fall 2007

Instructor: Diana Rae Springer-Lund

Web site: [www.cwu.edu/~springerlund](http://www.cwu.edu/~springerlund)

#### Course Description:

**CS 105 The Logical Basis of Computing (4).** Problem solving; algorithm development; complexity; computability. Representation of algorithms as computer programs; data; decision and control; inherent sources of error.

This course is a basic introduction to the use of computers as problem solving agents. This course is designed to assist non-computer science majors in understanding problem solving in the context of computer applications. In addition, students will understand the basic concepts of algorithms and will design and execute computer programs using VB.NET.

The **optional** text for this class is: **Programming Logic and Design--Introductory, Joyce Farrell, Thomson Course Technology**

#### Course Objectives:

At the completion of this course, students will:

- Understand and use basic sequential programming instructions
- Evaluate Boolean expressions to make comparisons
- Use the relational comparison operators
- Understand and use AND and OR logic
- Understand and use Boolean logic in selection and program decision making
- Understand the advantages of looping
- Use loops to accumulate totals
- Nest loops
- Plan and execute the mainline logic for a complete computer program using VB.NET

## Grading Policy:

Midterm Exam	20% of total grade
Final Exam or Project	30% of total grade
Laboratory Assignments	50% of total grade (40% homework, 60% programming)

A	94% or above	C	73-76
A-	90-93	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	59 or below

## Academic Integrity:

Students learn differently. Some learn best on their own. Others learn best in groups. Many learn best by teaching others. I encourage everyone to help each other learn the material. Helping each other learn is different from copying each other's work or doing the work together. Here are some specific do's and don'ts for this course:

- Help each other understand and debug the **lab assignments**. However, you should write the code for your programs yourself. Writing it yourself is the only way you will learn. **Do not** work together to solve the programming assignments to the extent that two programs are essentially the same solution.
- All program solutions turned in for credit are to be **your individual work** and should demonstrate your problem solving skills, not someone else's. Since everyone is writing their own code, no two programs should be the same or so similar that I could convert one to the other by a simple mechanical transformation (e.g. changing variable names and comments). I consider this plagiarism and a violation of academic code.
  - Violation: Students must meet with the instructor. One or both students may receive no credit for the assignment.

- An incident letter may be placed on file in the Computer Science Department and the matter referred to the Computer Science Department Chair for referral to the University honor court.
- A letter may be sent to the students' major department chair.
- Copied work from another student or any other source may be grounds for receiving a failing grade in this course.

The following **honor code** must appear in the header comment to all programming assignments:

**I pledge that this program represents my own program code. I received help from (fill in the names) in designing and debugging my program.**

All students are expected to do their own work. It is acceptable to ask other students, lab assistants, graders and the instructor for assistance. **Copied work is a violation of the academic code.**

The grader assigned to your lab section will maintain a record of the assignments turned in and graded. This record will also be available on this web site. **It is the student's responsibility to review the grade sheet to check current grade and assignment standing.** If you think there is an error, check with your instructor.

## **Attendance:**

Attendance will be taken in each lecture and lab. Attendance is **required** for team assignment days (Tuesdays). Failure to attend team assignment classes will result in receiving a zero (0) homework grade for the assigned lab. **Extra credit may be earned for exceptional attendance.**

You will be responsible for obtaining any information missed as a result of missing a class or lab. Missed classes will not be considered an acceptable excuse for late labs, missed exams, or late assignments.

## **Lab Assignment Policy:**

Lab work handed in late will not be accepted and no credit will be given for the late assignment.

Lab (coding) assignments are due at the beginning of lab on Thursday unless otherwise specified. The homework section of the lab assignment is due at the beginning of class on Thursday (**be sure to keep a copy for yourself for use in lab**). The coding assignments will be collected in the lab and the homework assignments will be collected in lab.

**All homework assignments are to be typed and in size 12 font.**

Any exceptions to these criteria must have **prior** approval from the instructor.

### **ADA Statement:**

Students who have documented disabilities that may affect their ability to access information and/or material presented in this course are encouraged to contact the Disability Support Services (DSS) office so that appropriate academic adjustments and accommodations can be provided.

Students who have contacted the DSS office should give me a copy of their Confirmed Eligibility for Academic Adjustments form as soon as possible so that we can discuss how the approved adjustments will be implemented for this class. Students who have not documented their disabilities and wish to arrange for academic adjustments and accommodations, as well as students who require additional information should contact Disability Support Services in Bouillon Hall, Room 205 or by email at [dssrecept@cwu.edu](mailto:dssrecept@cwu.edu) or by telephone at 963-2171.