



**North South University**  
**Department of Electrical and Computer Engineering**  
**CSE 115L: Programming Language I Lab**



# North South University

Department of Electrical and Computer Engineering

**CSE 115L: Programming language I Lab**

**Lab Outline – Summer 2020**

**Section: 1**

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**Faculty Member : DR. RAJESH PALIT (RjP)**

**Office Location : SAC 934**

**Lab Officer : Pranta Palit**

**Office Location : LIB 600-C2**

**Email : pranta.palit@northsouth.edu**

**Office hours : ST: 12:00 PM – 02:30 PM**

**MW: 10:00 AM – 01:00 PM**

**Lab hours : ST 02:40 PM – 04:10 PM**

**Lab room : LIB 602**

**Credit: 1 credit hour.**

**Course Summary:** This is the first course in computer science programming and is required for all computer science and engineering majors. This course introduces the fundamental concepts of structured programming. Topics include fundamentals of computers and number systems, algorithms & flowcharts, fundamental programming constructs: syntax and semantics of a higher-level language, variables, expressions, operators, simple I/O to console and files, conditional and iterative control structures, functions and parameter passing, dynamic memory allocation; fundamental data structures: arrays, structures, strings and string processing; and testing and debugging strategies.

**Textbook:** References to books will be provided by your faculty members.

**\*\*\* Additional study materials will be provided by your Lab Officer (Instructor).**

## **Marks distribution:**

<b>Attendance</b>	<b>10%</b>
<b>Assignments</b>	<b>10%</b>
<b>Project</b>	<b>20%</b>
<b>Quiz</b>	<b>20%</b>
<b>Midterm Exam</b>	<b>20%</b>
<b>Final Exam</b>	<b>20%</b>

### Date and Lab Schedule (Tentative)

Lecture	Experiment/Topic
1	Introduction
2	Introduction with C Programming
3	Selection Structures: if and switch Statements
4	
5	Repetition and Loop Statements Loops
6	
7	Top-Down Design with Functions
8	
9	1-D Arrays Multi-Dimensional Arrays
10	
11	
12	<b>Midterm Exam</b>
13	Strings
14	
15	Structure
16	
17	Pointers
18	
19	Text File processing
20	
21	Dynamic Memory and Recursion
22	
23	<b>Final Exam</b>
24	<b>Project Presentation</b>

**Exams and Quizzes:** Exams and quizzes will be closed book and closed notes. No electronic devices except non-programmable calculators will be allowed during exams. Calculators cannot be shared with friends. Nobody will be allowed to go outside the exam hall. There will be **no makeup quizzes, midterm exam and final exam**. I will take drop one quiz with the lowest score. If you miss a quiz, you will get zero for that. Any violation of the exam policy may result in failure grade in your corresponding exam or quiz. **Final exam will be comprehensive.**

**Assignments:** You have to submit assignments at my office room by your own laptop when it is due. There will be no group assignments, that means each and every one has to come to my office for submitting the assignments. If you miss this deadline, you will get zero for that assignment. To be successful in the exam, you should solve assignments problems independently, although you may discuss with your friends to understand a more comprehensive picture of the problems.

**Lab attendance:** Attendance in my lab is mandatory. Those who attend 95% or above labs, their attendance will be calculated on 5% of the lab grade. If you miss more than 30% of the labs, your attendance point will be zero. Attendance will be counted within five minutes at the beginning of the lab. If you come late, you will not be allowed to attend the lab. If you attend all the labs, you will get 2% bonus points, i.e. you will get 7% of your lab grade from lab attendance. If you attend a lab, you have to stay throughout the lab duration, unless you take prior permission from me for your early departure. Otherwise, your attendance will be changed to absent.

**Lab etiquette:** Distracting others in lab is violating others rights to be attentive. So, food, tabs or cell phones cannot be used on during lab time.

**Grade dispute:** If you dispute your grade on any assignment, quiz, project or exam, you have one-week time from the date that the graded paper was returned to you to request a change in the grade. After this time, no further change in grade will be considered. The course instructor and the lab instructor reserve the right to re-grade the whole paper.

**General lab course administration:** The lab presentations will be interactive lectures. I will provide you lab manuals following the lab sessions. To supplement lab administration, there will be a Facebook group for this lab course. All students must subscribe to that service and monitor messages, posts from that group regularly. I will provide additional reading materials/ manuals/notices/ marks etc. through this service. Detail on the membership of that Facebook group will be notified soon. Send me an email if you need any assistance for any topic.

**Academic Honesty:** Any means of unauthorized assistance in preparing materials which a student submits as original work is deemed to be cheating and constitutes grounds for disciplinary action. Any student judged to have engaged in cheating might receive a reduced grade for the work in question, a failing grade in the lab course, or such other lesser penalty, as the lab instructor deems appropriate. Serious instances may be referred to the Disciplinary Committee in the Office of the Proctor.