I. Course Description
The first course of a two-semester sequence in basic programming. Currently it is offered in C++. You will learn the basics of programming, including basic data structures, data and procedure abstraction, and problem-solving strategies (sorting, merging, etc.).

II. Text
Problem Solving, Abstraction, Design Using C++
By Frank L. Fiedman, Elliot B. Koffman

III. Ethical Responsibilities; Students are also expected to demonstrate ethical policies and practices in the course. Cheating will not be tolerated (zero Tolerance) If caught, you will receive a zero.

IV. Course Outline
Chapter 1: Introduction to Computers, Problem Solving, and Programming
Chapter 2: Overview of C++
Chapter 3: Top-Down Design with Functions and Classes

MIDTERM
Chapter 4: Selection Structures: if and switch Statements
Chapter 5: Repetition and Loop Statements
Chapter 6: Modular Programming
Chapter 7: Simple Data Types

FINAL EXAM

V. Evaluation
Class participation 10%
Homeworks 30% (Late will be 20% penalized for each day)
Midterm 20%
Final Examination 40% (Comprehensive)
VI. Grading Scale

90-100       A
80-89         B
70-79         C
60-69         D
0-59          F

VII. USE OF THE SHAW UNIVERSITY LIBRARY

It is imperative that you familiarize yourself with the instructional materials that are available to you in the James E. Cheek library on campus. Not only are there numerous books, periodicals, magazine articles, encyclopedias, and newspapers on hand for your perusal in our Library. There are course textbooks and related instructional materials that your professors have placed On Reserve for you as well. In addition, there you will have access to state-of-the-art computers and laptops, which help to place the world virtually at your fingertips. Don’t wait another day. Become a regular patron at the James E. Cheek Library here on the campus of Shaw University. You’ll become a far better scholar, a more capable and well-rounded intellectual, and a sharper and more competitive individual. It’s your library. Use it!