

# Introduction to Programming in C

Columbia University in the City of New York  
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July 21 2015 - August 7 2015

## **1 Tuesday July 21**

Introduction to the Course, History of Computers/Computer Science, Welcome to New York.

## **2 Wednesday July 22**

Basic Concepts, Learning the Programming Environment, Compiling and Running, Form of a C program, Types, Variables, Operators.

## **3 Thursday July 23**

More on Variables, Control Flow, Conditional Expressions, True/False, If and Else Statements

## **4 Friday July 24**

Loops: For and While Statements

## **5 Monday July 27**

More on Loops, Best Practices in Coding, Coding Conventions

## **6 Tuesday July 28**

Functions, Recursion

## **7 Wednesday July 29**

Recursion Continued, Arrays

## **8 Thursday July 30**

Arrays & Strings, C Libraries

## **9 Friday July 31**

Arrays & Strings Continued.

## **10 Monday August 3**

Structures in C.

## **11 Tuesday August 4**

C Preprocessor, Header Files

## **12 Wednesday August 5**

File I/O

## **13 Thursday August 6**

Pointers in C.

## **14 Friday August 7**

Review of Topics not Covered, Wrap-up Lecture.