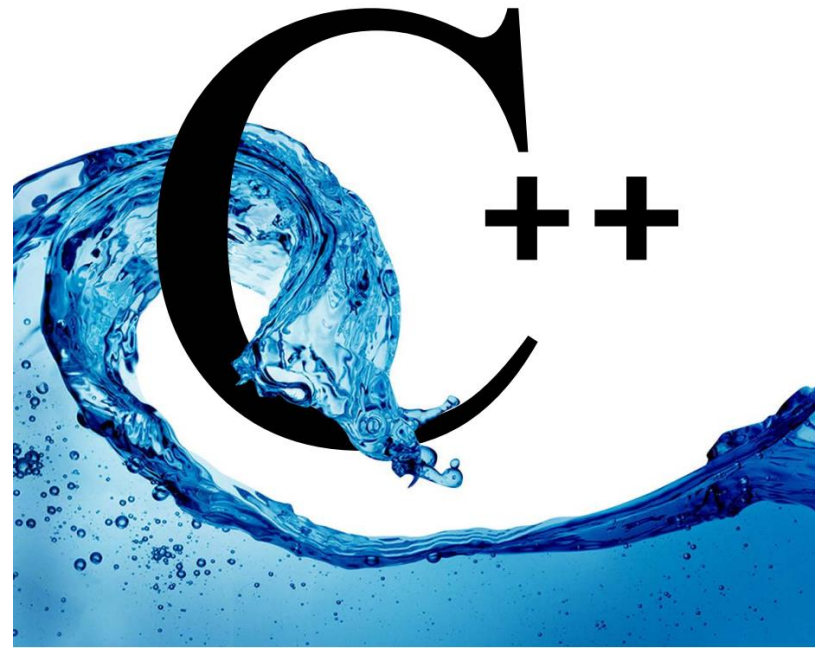




**ME 110**  
**Computation for**  
**Mechanical**  
**Engineering**



# Lecture 1

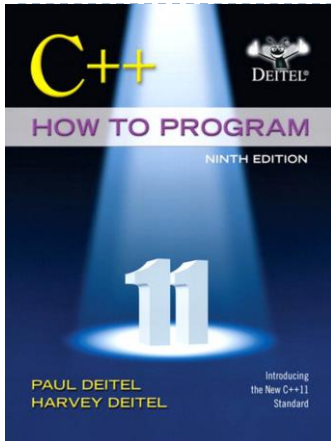
## Introduction to the course

# Web Resources for the Course

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- ▶ **University of Gaziantep C++ resource page**  
[cpp.gantep.edu.tr](http://cpp.gantep.edu.tr)
  - Tutorials, Sample Programs, Howtos
  - We will follow the “*Basic tutorial*” section.
- ▶ **C++ Resources Network:**  
[www.cplusplus.com](http://www.cplusplus.com)
- ▶ **C++ Reference:**  
[www.cppreference.com](http://www.cppreference.com)
- ▶ <http://www.doc.ic.ac.uk/~wjk/C++Intro/>
- ▶ **Also search *Google* and *Wikipedia* for any of the expressions used in this course.**

# Course Books



## C++ How to Program

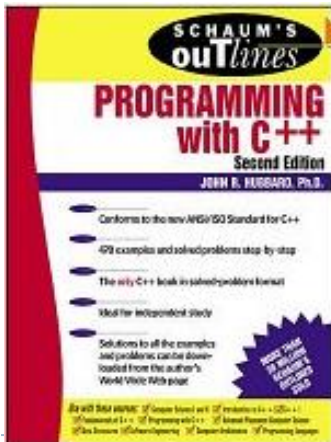
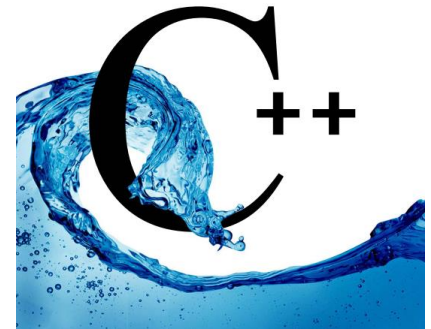
Poul and Harvey Deitel, Pearson Education (2024)

## Jumping into C++,

Alex Allain, [www.cprogramming.com](http://www.cprogramming.com)

ALEX ALLAIN  
CREATOR OF CPROGRAMMING.COM

## JUMPING INTO



## Programming with C++,

John R. Hubbard Schaum Outline Series (2000)

# Course Content

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Introduction to the course	12-02-2024
Introduction to the programming	14-02-2024
C++ Structure and programming, C++ Data Types	19-02-2024
Computer Lab-1	21-02-2024
C++ operators, intrinsic functions, and strings	26-02-2024
Computer Lab-2	28-02-2024
Control structures: Selection	04-03-2024
Computer Lab-3	06-03-2024
Control structures: Repetitive structures	11-03-2024
Computer Lab-4	13-03-2024
Formatted I/O	18-03-2024
Computer Lab-5	20-03-2024
File processing	25-03-2024
Computer Lab-6	27-04-2024
<b>MIDTERM-1</b>	<b>01-04-2024</b>

Functions I: Introduction and Basics (Part I)	03-04-2024
Functions II: Introduction and Basics (Part II)	15-04-2024
Computer Lab-7	17-04-2024
Arrays	22-04-2024
Multidimensional Arrays	24-04-2024
Computer Lab-8	29-04-2024
Vectors	06-05-2024
Computer Lab-10	08-05-2024
References and Pointers	13-05-2024
Computer Lab11	15-05-2024
Introduction to Classes	20-05-2024
Computer Lab-12	22-05-2024
<b>MIDTERM-2</b>	<b>27-05-2024</b>
Summary for Final exam	29-05-2024

# Lectures, Labs, Attendance, Exams

## FIRST EDUCATION

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### ▶ **Tuesday**

- ▶ two-hour lecture 10:20-12:00 in BIM

### ▶ **Wednesday**

- ▶ two-hour programming session 13:30-15.10 in BIM

### ▶ **Attendance**

- ▶ You must attend at least 70% of the course

### ▶ **Exams**

*All are written exams*

- ▶ **First midterm**                      **20%**
- ▶ **Second midterm**                      **20%**
- ▶ **Quizzes**                              **20%**
- ▶ **Final**                                      **40%**

# Lectures, Labs, Attendance, Exams

## SECOND EDUCATION

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### ▶ **Tuesday**

- ▶ two-hour lecture 18:50-20:30 in BIM

### ▶ **Wednesday**

- ▶ two-hour programming session 20:40-21:25 in BIM

### ▶ **Attendance**

- ▶ You must attend at least 70% of the course

### ▶ **Exams**

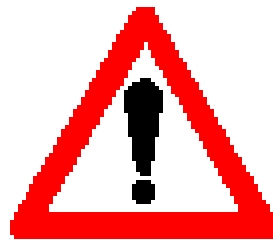
*All are written exams*

- ▶ **First midterm**                      **20%**
- ▶ **Second midterm**                      **20%**
- ▶ **Quizzes**                              **20%**
- ▶ **Final**                                      **40%**

# Computer Labs

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- ▶ **We will learn C++ using the Dev-C++ compiler under Windows**
- ▶ **Every week you should write a few programs yourself in the BIM lab (and more in your free time).**
- ▶ **In the BIM Computer Labs your programs will be deleted when the computer restarted. So you need to save them on a flash drive or on the internet.**



**DO NOT FORGET TO BRING  
YOUR LAPTOP or FLASH DISK WITH YOU**

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