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# JINAN UNIVERSITY

## Programming in C++

**Lecturer:** Hynek Boril

**Time:** Monday through Friday (June 18, 2018–July 20, 2018)

**Office hours:** 2 hours (according to the teaching schedule)

**Contact Hours:** 60 (50 minutes each)

**Credits:** 4

**Location:** Huiquan Building

**Office:** Huiquan Building 518

**E-mail:** borilh@uwplatt.edu

### Course Description:

Covers core programming skills including procedural programming in C++, algorithms, modularity, and abstraction. Out-of-class assignments give the student a chance to tie the concepts together and learn basic programming style, documentation, and development skills necessary for working in a team environment.

### Required Text:

*Programming in C++*, by Nell Dale and Chip Weems, 5th Edition, 2010

### Course Hours

The course has 25 sessions in total. Each class session is 120 minutes in length. The course meets from Monday to Friday.

## Course Schedule

### Week 1:

- Overview
- Syntax & Semantics of C++ programs
- Arithmetic, functions, and output
- Input and software design process

### Week 2:

- Conditions and control flow
- Loops
- Functions

### Week 3:

- Variable scope and lifetime
- Arrays, for loops
- Classes
- Multidimensional arrays

### Week 4:

- Lists and strings
- Simple data types
- File streams, switch

### Week 5:

- Object oriented program design

## Outcomes

Develop algorithms to solve "computer-solvable" problems.

Test algorithms.

Translate algorithms to C++ programs.

Debug, run and test C++ "procedural" programs.

Understand the software development process by using requirements to design, implement and test C++ programs.

## Grading Policy

Final letter grades are determined from your final cumulative score that is computed using the following breakdown:

Gradable Contents

30% Programming Assignments:

Four (4) programming assignments, each worth 6-10% of your final grade.

10% Labs:

·Ten (10) lab assignments, each worth 1% of your final grade.

10% Homework:

·Ten (10) homework assignments, each worth 1% of your final grade.

50% Exams:

·Two (2) exams, one midterm and one final, each is worth 25% of your final grade.

Letter grades are assigned at the end of the semester. We do not curve individual assignments or exams. At the end of the semester after all of the scores are recorded, the thresholds are set given the difficulty of the course work during the semester.

Thresholds are raised if the course work was easier or lowered if it was harder. By adjusting and setting thresholds at the end of the semester we can account for varying difficulty among semesters to ensure grading consistency.

## Grading Scale

The instructor will use the grading system as applied by JNU:

Definition	Letter Grade	Score
Excellent	A	90-100
Good	B	80-89
Satisfactory	C	70-79
Poor	D	60-69
Failed	E	Below 60

## About Computing Facilities

JNU Summer Session will provide a computer lab for use to all the enrolled students. See the JNC technical staff for more information. There will be a number of lab sessions for lecturing as well as practicing. Exact schedules will be announced on the first day of classes.

### **About Assignment Submission**

Every home/lab assignment must be submitted before class on the day it is due. Late work will be penalized one grade notch (e.g., B- to C+) for each day it is late. The weekend counts as one day. Only late work can be submitted electronically to the instructor's official email address.

### **How to Dispute a Grade for an Assignment or Exam?**

If you wish to dispute the grade given to a project/ homework assignment, you must do so by coming to the office hours and disputing the grade in person within a day after the assignment is graded and returned.

If you wish to dispute the grade assigned to a paper or a question on an exam, you must do so IN WRITING within a day after the exam or paper has been returned. You must include a specific rationale for why your answer is correct, or why the paper deserves a higher grade. "I think I deserve a better grade" does NOT constitute a rationale.

### **Academic Honesty**

Jinan University defines academic misconduct as any act by a student that misrepresents the students' own academic work or that compromises the academic work of another. Scholastic misconduct includes (but is not limited to) cheating on assignments or examinations; plagiarizing, (i.e., misrepresenting as one's own work any work done by another; submitting the same paper or substantially similar papers to meet the requirements of more than one course without the approval and consent of the instructors concerned; or sabotaging another's work within these general definitions). Within these general definitions, however, instructors determine what constitutes academic misconduct in the courses they teach. Students found guilty of academic misconduct in any portion of the academic work face penalties ranging from lowering of their course grade to awarding a grade of E for the entire course.