

# COURSE DETAIL

## PROGRAMMING METHODOLOGY

**Country**

Singapore

**Host Institution**

National University of Singapore

**Program(s)**

National University of Singapore

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

19

**UCEAP Course Suffix**

B

**UCEAP Official Title**

PROGRAMMING METHODOLOGY

**UCEAP Transcript Title**

PROGRAMMING METHOD

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

This course introduces the fundamental concepts of problem-solving by computing and programming using Java. Topics covered include computational thinking and computational problem solving, designing and specifying an algorithm, basic problem formulation and problem solving approaches, program development, coding, testing and debugging, fundamental programming constructs (variables, types, expressions, assignments, functions, control structures, etc.), fundamental data structures (arrays, strings, composite data types), basic sorting, and recursion. The software tool used in this course is DrJava.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

CS1010J

### **Host Institution Course Title**

PROGRAMMING METHODOLOGY

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Computer Science

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