

**COMPUTER PROGRAMMING 1, 2, ADVANCED COMPUTER PROGRAMMING
(NEW NAMES: INRODUCTION TO COMPUTER PROGRAMMING,
INTERMEDIATE COMPUTER PROGRAMMING, ADVANCED COMPUTER
PROGRAMMING 2022-23)**

COURSE CODE: 5050, 5051, 5376

Additional Materials and Resources

[Instructional Materials](#)

Certifications:

- [C++ INSTITUTE](#)
 - [C++ Certified Associate Programmer \(CPA\)](#)
 - [C++ Certified Professional Programmer \(CPP\)](#)
 - [C Programming Language Certified Associate \(CLA\)](#)
 - [C Certified Professional Programmer \(CLP\)](#)
- [PYTHON INSTITUTE](#)
 - [PCEP – Certified Entry-Level Python Programmer](#)
 - [PCAP – Certified Associate in Python Programming](#)
 - [PCPP – Certified Professional in Python Programming 1](#)
 - [PCPP – Certified Professional in Python Programming 2](#)
- [MICROSOFT](#)
 - [Exam 98-381: Introduction to Programming Using Python](#)
 - [MTA: Introduction to Programming Using Python](#)
 - [Exam 98-388: Introduction to Programming Using Java](#)
 - [MTA: Introduction to Programming Using Java](#)
 - [Exam 70-480: Programming in HTML5 with JavaScript and CSS3](#)
 - [MTA: Introduction to Programming Using JavaScript](#)
 - [Exam 98-382: Introduction to Programming Using JavaScript](#)
 - [Exam 98-383: Introduction to Programming Using HTML and CSS](#)
 - [MTA: Introduction to Programming Using HTML and CSS](#)
 - [Exam 70-483: Programming in C#](#)
 - [MTA: Software Development Fundamentals](#)
 - [Exam 98-361: Software Development Fundamentals](#)
 - [Exam 70-357: Developing Mobile Apps](#)
 - [Exam 98-375: HTML5 Application Development Fundamentals](#)
 - [MTA: HTML5 Application Development Fundamentals](#)
- [ORACLE](#)
 - [Java EE 7 Application Developer | 1Z0-900](#)
 - [Oracle Certified Professional: Java SE 11 Developer \(Upgrade from OCP Java 6, 7 & 8\)](#)
 - [Oracle Certified Associate, Java SE 8 Programmer](#)
 - [Oracle Certified Professional, Java SE 8 Programmer](#)
 - [Oracle Certified Foundations Associate, Java](#)
 - [Oracle Certified Professional: Java SE 11 Developer](#)

Student Organizations:

BPA

DECA

FBLA

SkillsUSA

TSA

Teacher Resources:

[SC 9-12 Computer Science Standards](#)

[CSTA Standards](#)

[Code.org](#)

[CodeHS](#) – coding platform

Program Documentation:

Google Docs

MS Word

//Comments

Program Design:

[Lucidchart used to make flowcharts](#)

[Creatively used to make flowcharts](#)

[Web Sequence](#)

Programming:

<https://codingbat.com> Java and Python

<http://www.drjava.org> (IDE)

<https://codecombat.com>

<https://education.minecraft.net> (Python)

<https://www.khanacademy.org/computing/computer-programming> (javascript)

<https://www.codehs.com>

<https://stackoverflow.com>

<https://github.com>

<https://repl.it/>

Pseudocode and Algorithm Design:

<https://www.geeksforgeeks.org/how-to-write-a-pseudo-code/>

<https://www.wikihow.com/Write-Pseudocode>

Designing, Testing, and Debugging Programs:

<https://www.getzephyr.com/insights/test-scripts-test-cases-test-scenarios>

<https://www.softwaretestinghelp.com/difference-between-test-plan-test-strategy-test-case-test-script-test-scenario-and-test-condition/>

<https://www.geeksforgeeks.org/difference-between-test-case-and-test-script/>

Visual Studio or similar program that provides students the ability to write code and test its operation.