

These are **optional**, if you are learning from your recommended book Object Oriented Programming in C++. If you want to listen video lectures about some particular topic, you can choose any one from below.

Virtual University Course Videos (**optional**):

- Only follow first 25 lectures, not more than this required in this class. Further only listen to those topics (of first 25 lectures) which are related to your recommended book material or provided course outline  
<https://ocw.vu.edu.pk/Videos.aspx?cat=Computer+Science%2FInformation+Technology+&course=CS201>

## Links to Online MOOCs

Here I am referring many C and C++ language online courses. For free access always choose the Audit option, after pressing the Enroll button. The Audit option will come at the bottom of the page!

Further note that, for your syllabus, there is no difference in C and C++, the only difference is getting data from the user. In C++, we use object for input and output respectively as, cin and cout, whereas in C we use scanf(), and printf() functions. So, don't get confused, if some online course talking about C, it's relevant to you.

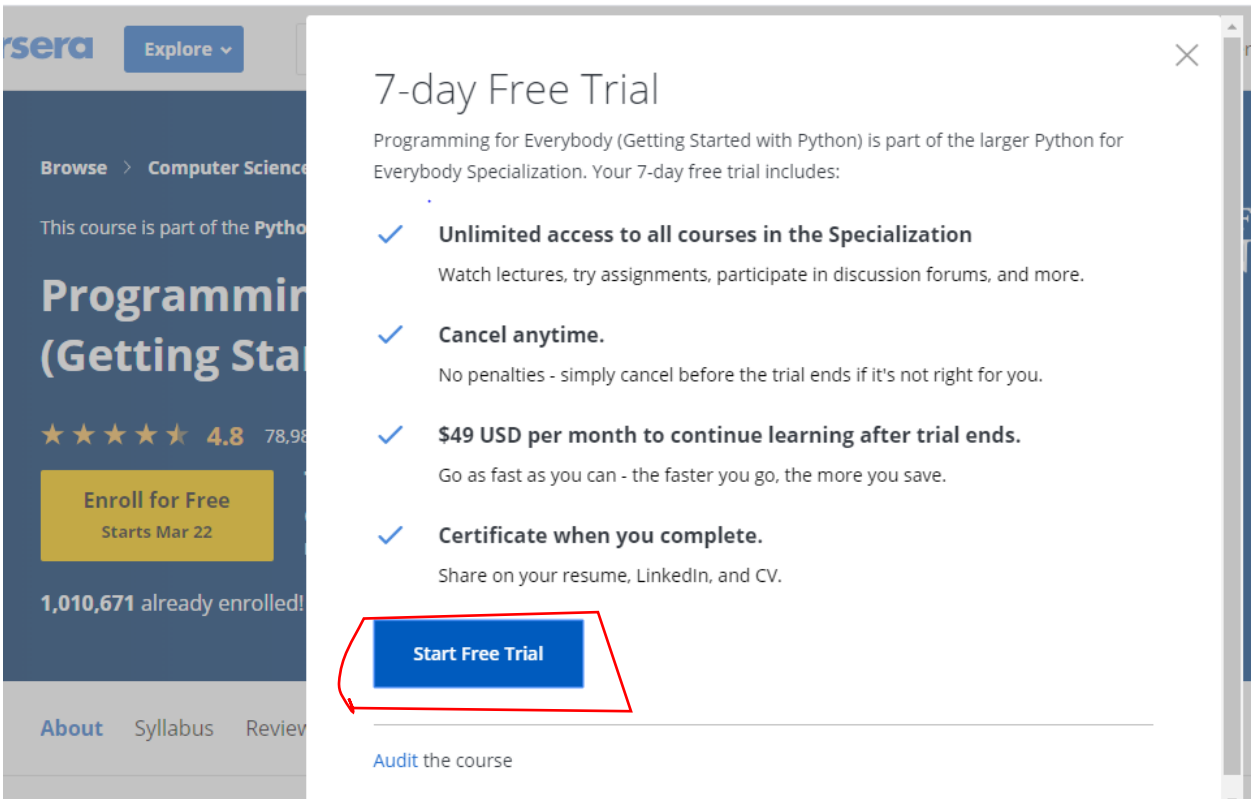
- Programming Fundamentals <https://www.coursera.org/learn/programming-fundamentals>
- (**optional**) Writing, Running, and Fixing Code in C <https://www.coursera.org/learn/writing-running-fixing-code>
- (**optional**) Pointers, Arrays, and Recursion <https://www.coursera.org/learn/pointers-arrays-recursion>
- (**optional**) C Programming: Getting Started <https://www.edx.org/course/c-programming-getting-started>
- (**optional**) C Programming: Language Foundations <https://www.edx.org/course/c-programming-getting-started>

## Steps to Enroll into an online course

1. Visit the related URL of the course, "Programming for Everybody (Getting Started with Python)" go to <https://www.coursera.org/learn/python?specialization=python>  
(note that: For programming fundamental course, to learn C, you need to enter this URL: <https://www.coursera.org/learn/programming-fundamentals>). Don't worry there is no difference in C/C++ in many ways.
2. Click the button, **Enroll for Free**,

The screenshot shows the Coursera interface for the course "Programming for Everybody (Getting Started with Python)". At the top, there's a navigation bar with "era" logo, an "Explore" dropdown, a search bar with "What do you want to learn?", and a "For Enterprise" link. Below the navigation bar, the course is categorized under "Browse > Computer Science > Software Development". It mentions "This course is part of the Python for Everybody Specialization". The course title "Programming for Everybody (Getting Started with Python)" is prominently displayed. Below the title, it shows a rating of 4.8 stars from 78,988 ratings and 19,361 reviews. A yellow box highlights the "Enroll for Free" button, which states "Starts Mar 22" and "Financial aid available". To the right of this box, it says "Try for Free: Enroll to start your 7-day full access free trial". At the bottom, it states "1,010,671 already enrolled!". The University of Michigan logo is visible in the top right corner of the course card.

3. A window will pop-up, for free access of the course, click the hyperlink **Audit** the course, present at the bottom left of the pop-up window. Don't click, Start free trial, for free access:



4. Fill the optional form, will appear in the pop-up window, and press the button Save.

**Get personalized recommendations based on your background**

**Work Experience**

**OCCUPATION**  
Ex: Product Manager

**EXPERIENCE LEVEL**  
Not Applicable

**EMPLOYER**  
Ex: Microsoft  
☐ I currently work here

**Education**

**DEGREE**  
Master's degree (e.g., MA, MS, MEng, ME)

**UNIVERSITY**  
The Islamia University of Bahawalpur, Pakistan

**FIELD OR MAJOR**  
Computer Science  
☒ I am currently a student

**Career Goal**

**OCCUPATION**  
Ex: Data Scientist

**INDUSTRY**  
Ex: Technology

5. Start reading from week 1,

