An Introduction to Computer Programming in C

Summer 2024, First Session

Arun Chandra

Program Description

This class is an introduction to computer programming — for those who might think that programming's not for me!

We'll be studying the 'C' programming language. Students will learn

- vocabulary of the 'C' programming language.
- looping constructs
- decision making and control flow
- building independent functions
- *structs* and their uses.

We'll also be studying:

- algorithms for sorting and building linked lists
- reading, writing and transforming data
- memory management in 'C'
- using programming for the articulation and solution of certain types of problems.

This class is particularly intended for students from underrepresented communities. No previous experience with programming is required.

The class will meet four days a week, with a one-hour morning session and a two-hour afternoon session. Each morning, the faculty will be giving presentations and lectures on aspects of programming in 'C' and using the Unix system. Every afternoon, there will be workshops and online exercises, for which the faculty will be present for help and support.

Both morning lectures and afternoon workshops will be online. Students will need a computer with decent internet access.

Our work will be conducted remotely, using Canvas and Zoom. Our synchronous meetings are important, but if a student encounters difficulties, they will be given access to alternative assignments that could help them earn comparable, but not identical, credit.

Our class will be using *zybooks* as the online learning tutorial. This will cost $58 for each student.

First Meeting: Monday, June 24, 2024

The credit breakdown will be:

- Fundamentals of programming in 'C': 4
- Computer Science fundamentals: 4

Registration

Course Reference Numbers: First Session (8): 40006

Fields of Study: Computer Science

Preparatory for: All fields that require the intelligent use of computers.

Credits: 8

Maximum Enrollment: 25

Class Standing: All level.

Schedule: 11am–12pm and 1pm–3pm, Mondays, Tuesdays, Wednesdays, Thursdays

In Person or Remote: Remote

Time Offered: 11am–12pm and 1pm–3pm

Day: Mondays, Tuesdays, Wednesdays, Thursdays

Schedule Evergreen link: see Schedule Evergreen for detailed schedule

First Meeting: Monday, June 24, 2024, 11:00 am Remote/Online

Location: Olympia