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Parallel Programming

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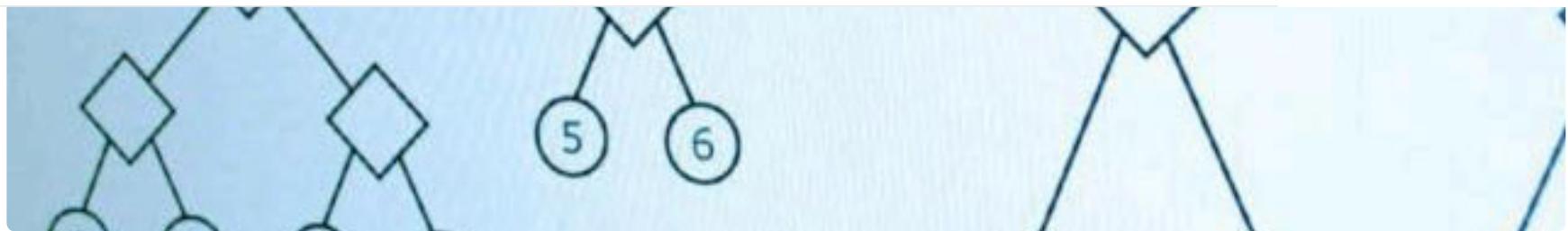
Parallel programming (Scala 2 version) (Coursera)

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With every smartphone and computer now boasting multiple processors, the use of functional ideas to facilitate parallel programming is becoming increasingly widespread. In this course, you'll learn the fundamentals of parallel programming, from task parallelism to data parallelism. In particular, you'll see how many familiar ideas from functional programming [...]

[Parallel Programming](#), [Programming](#), [Scala](#), [Computer Programming](#), [Algorithms](#), [Parallel Computing](#), [Parallel Code](#), [Data Structures](#)

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Go for Python Developers (Coursera)

Oct 27th 2025



Course Auditing



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Effort

[Beginner](#) [3 Weeks](#) [1-4 Hours/Week](#)

Languages

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Code and run your first Go program in minutes without installing anything! This course is designed for learners who are already familiar with development practices in a modern programming language such as Python to be quickly onboarded to the fast and powerful language of Go (sometimes referred to as [...])

[Go Programming](#), [Python](#), [Python Programming](#), [OOP](#), [Parallel Programming](#), [Coursera Plus](#)

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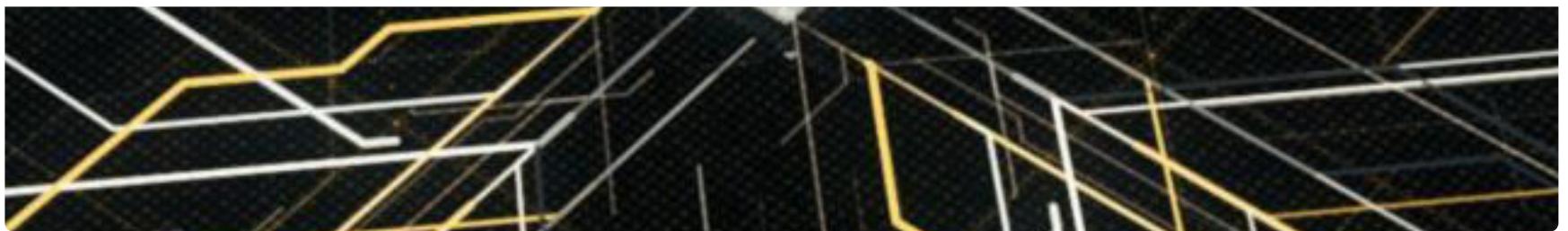
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Introduction to Concurrent Programming with GPUs (Coursera)

Oct 27th 2025



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Effort

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Languages

 [English](#)  [English](#)

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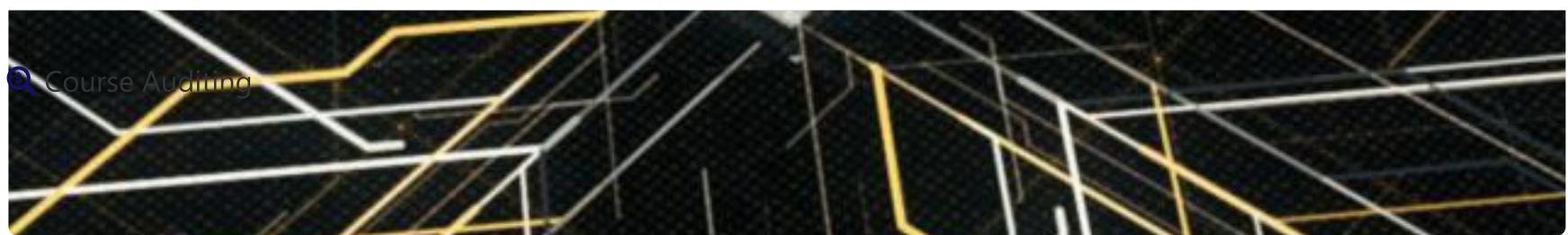
This course will help prepare students for developing code that can process large amounts of data in parallel. It will focus on foundational aspects of concurrent programming, such as CPU/GPU architectures, multithreaded programming in C and Python, and an introduction to CUDA software/hardware.

 [GPU Programming Specialization](#), [Concurrent Programming](#), [GPU](#), [CUDA](#), [Programming](#),
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Introduction to Parallel Programming with CUDA (Coursera)

Oct 27th 2025



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Categories

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Effort

[Intermediate](#) [5-12 Weeks](#) [5-10 Hours/Week](#)

Languages

[English](#) [English](#)

This course will help prepare students for developing code that can process large amounts of data in parallel on Graphics Processing Units (GPUs). It will learn on how to implement software that can solve complex problems with the leading consumer to enterprise-grade GPUs available using Nvidia CUDA. They will [...]

[GPU Programming Specialization](#), [Parallel Programming](#), [CUDA](#), [GPU](#), [C/C++ Programming](#), [NVIDIA GPUs](#), [Coursera Plus](#)

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Parallel Programming in Java (Coursera)

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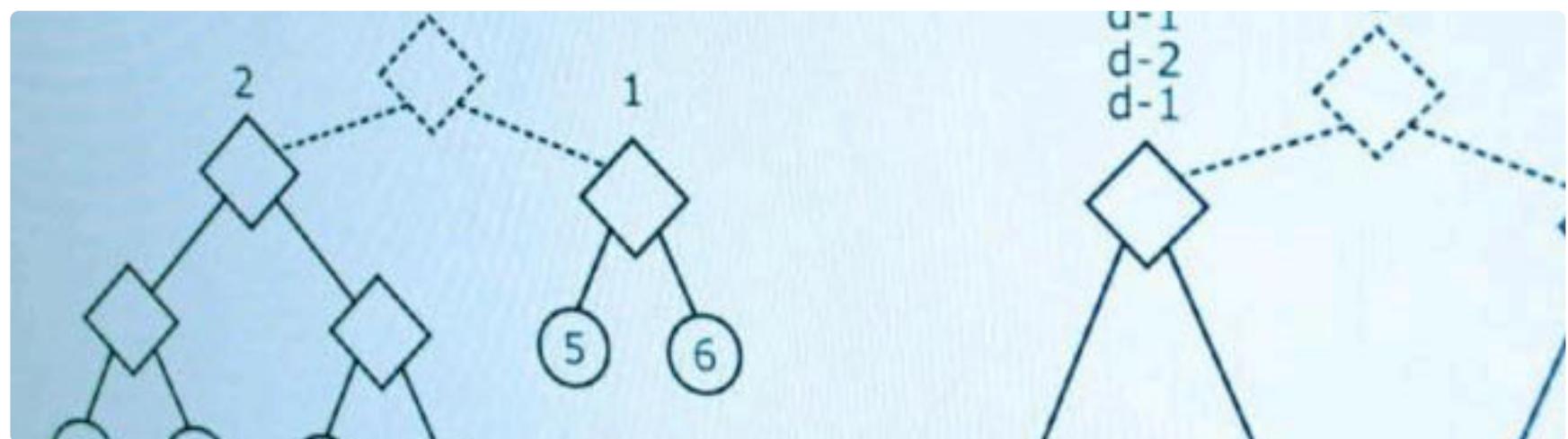
This course teaches learners (industry professionals and students) the fundamental concepts of parallel programming in the context of Java 8. Parallel programming enables developers to use multicore computers to make their applications run faster by using multiple processors at the same time. By the end of this course, you [...]

Parallel Concurrent and Distributed Programming in Java Specialization, Parallel Programming, Parallel Computing, Data Parallelism, Java, Programming, Java Programming, ForkJoin, Stream, Phaser, Dataflow, Coursera Plus

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Parallel programming (Coursera)

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Course Auditing

Coursera École Polytechnique Fédérale de Lausanne

Categories

CS: Programming, CS: Software Engineering

Effort

Intermediate 4 Weeks 5-10 Hours/Week

Languages

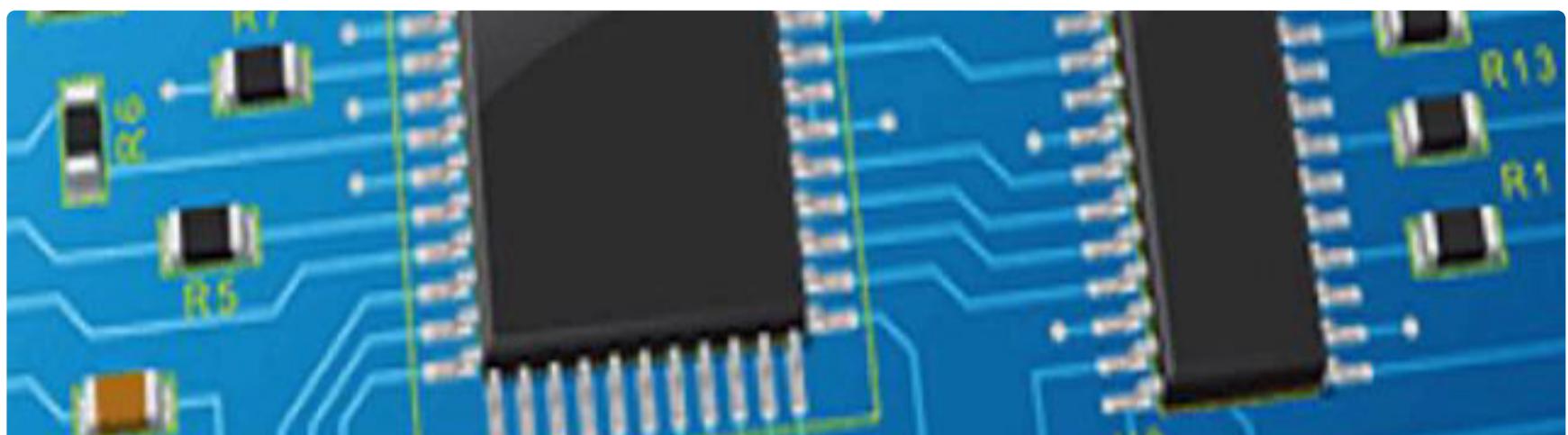
English Arabic, French, Portuguese, Italian, Vietnamese, German, Russian, English, Spanish

With every smartphone and computer now boasting multiple processors, the use of functional ideas to facilitate parallel programming is becoming increasingly widespread. In this course, you'll learn the fundamentals of parallel programming, from task parallelism to data parallelism. In particular, you'll see how many familiar ideas from functional programming [...]

Functional Programming in Scala Specialization, Parallel Programming, Task Parallelism, Data Parallelism, Algorithms, Parallel Code, Parallel Computing, Data Structures, Coursera Plus

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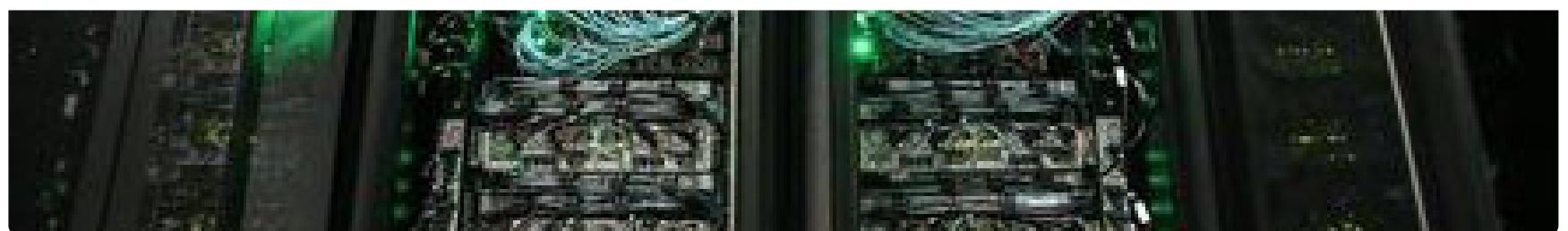
In this course, you will learn to design the computer architecture of complex modern microprocessors. All the features of this course are available for free. It does not offer a certificate upon completion.

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MPI: A Short Introduction to One-sided Communication (FutureLearn)

No sessions available



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Effort

[2 Weeks](#) [1-4 Hours/Week](#)

Languages

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Learn the details of one-sided communication in MPI programming. Discover the advantages to one-sided communication in parallel programming. Message Passing Interface (MPI) is a key standard for parallel computing architectures. On this course, you'll learn the essential concepts of one-sided communication in MPI, as well as the advantages of [...]

[One-sided Communication](#), [MPI](#), [MPI Programming](#), [Message Passing Interface](#), [Parallel Programming](#), [Remote Memory Access](#), [RMA](#)

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Parallel Programming Concepts (openHPI)

Self Paced



Free Course

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Effort

The openHPI online course "Parallel Programming Concepts" presents relevant theoretical and practical foundations for parallel programming. We show crucial theoretical ideas such as semaphores and actors, the architecture of modern parallel hardware, different programming models such as task parallelism, message passing and functional programming, and several patterns and best [...]

[Parallel Programming](#)

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- MOOC stands for a Massive Open Online Course.
- It is an online course aimed at large-scale participation and open (free) access via the internet. However, some providers may charge for things like graded items, course completion certificates, or exams.
- They are similar to university courses but do not tend to offer academic credit.
- Several web-based platforms (providers Aka initiatives) supported by top universities and colleges offer MOOCs in a wide range of subjects.

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