

Course

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**This course has already ended.**  
**The latest instance of the course can be found at: [Concurrent Programming: 2023](#)**

« 5 Feedback Course materials 1 Concurrency basics -- Computational model and critical section. »

CS-E4110 / Round 2 - Scala concurrency - Part 2

Monday, 1 November 2021, 03:00 – Tuesday, 16 November 2021, 14:00  
*Late submissions are allowed until Tuesday, 23 November 2021, 14:00. However, points are only worth 70%.*

First, this round explains how critical sections play a role when defining a computational model in a concurrent setting. Then, it continues from last round to introduce the low-level concurrency mechanisms available in Scala.

- 1 Concurrency basics -- Computational model and critical section.
- 2 Spinlock -- Low-level mechanisms for mutual exclusion and concurrency control.
- 3 Countdown latch -- A versatile synchronization tool implemented using low-level synchronization primitives.
- 4 Lock-free Stack -- Implementing lock-free concurrent algorithms.
- 5 Feedback