**Concurrency** in computer science refers to the ability of different parts or units of a program, algorithm, or problem to be executed out-of-order or in partial order, without affecting the outcome. [It allows for parallel execution of these concurrent units, which can significantly improve overall speed in multi-processor and multi-core systems1](https://openclassrooms.com/en/courses/5684021-scale-up-your-code-with-java-concurrency). Here are **five free online resources** where you can learn more about concurrency:

1. [**Scale Up Your Code With Java Concurrency**](https://openclassrooms.com/en/courses/5684021-scale-up-your-code-with-java-concurrency): This course covers Java’s powerful concurrency framework, including parallel streams, thread pools, and concurrency primitives[1](https://openclassrooms.com/en/courses/5684021-scale-up-your-code-with-java-concurrency).
2. [**Concurrent Programming in Java**](https://www.coursera.org/learn/concurrent-programming-in-java): Part of the Parallel, Concurrent, and Distributed Programming in Java Specialization on Coursera, this course explores safeguarding techniques, concurrent collections, and more[2](https://www.coursera.org/learn/concurrent-programming-in-java).
3. [**Mastering Concurrency: A Guide for Software Engineers**](https://www.harrisonclarke.com/blog/mastering-concurrency-a-guide-for-software-engineers): This blog post provides insights into the art of concurrent programming and how to tackle hard problems using concurrency[3](https://www.harrisonclarke.com/blog/mastering-concurrency-a-guide-for-software-engineers).
4. [**Microsoft’s Free AI Training: Your Gateway to the Future!**](https://concurrency.com/blog/microsofts-free-ai-training-your-gateway-to-the-future/): While not exclusively about concurrency, this resource offers valuable insights into AI and its applications[4](https://concurrency.com/blog/microsofts-free-ai-training-your-gateway-to-the-future/).
5. [**Introduction to Concurrency**](https://eng.libretexts.org/Courses/Delta_College/Operating_System%3A_The_Basics/05%3A_Process_Synchronization/5.1%3A_Introduction_to_Concurrency): Learn about concurrency basics, shared memory, and message passing in this online course[5](https://eng.libretexts.org/Courses/Delta_College/Operating_System%3A_The_Basics/05%3A_Process_Synchronization/5.1%3A_Introduction_to_Concurrency).

Happy learning! 🚀