

**Schedule for COMPUTE course**  
*“Parallel programming of HPC systems”*

The course *Parallel Programming of HPC Systems* will start in the second study period of the autumn term 2022 and finish in early 2023.

Lectures will be held:

**Tuesdays and Fridays at 10:15 in the morning**

The tutorials will be held:

**Wednesday at 13:30 in the afternoon**

Teaching rooms are located in the Mathematics building also known as F-building.

Status: October 10, 2022

Date	Lecture room	Lecture topic
Tue, 8 Nov	MH:332A	Intro, Parallel Computing & Memory system
Fri, 11 Nov	MH:332A	Threads, HPC system, shared and private data
Tue, 15 Nov	MH:332A	Private and shared data, Barriers and Atomics
Wed, 16 Nov	MH:228	<i>Tutorial</i>
Fri, 18 Nov	<b>MH:227</b>	Threadbinding, Workshare,
Tue, 22 Nov	MH:332A	Loop schedules, Timers, Private data II
Wed, 23 Nov	MH:228	<i>Tutorial</i>
Fri, 2 Dec	MH:332A	User Reduction, Workshare II
Tue, 6 Dec	MH:332A	Orphan directives, Performance, Scalasca
Wed, 7 Dec	MH:228	<i>Tutorial</i>
Fri, 9 Dec	MH:332A	SIMD and OpenMP Tasks
Tue, 13 Dec	MH:332A	OpenMP Task, Intro to MPI
Wed, 14 Dec	MH:228	<i>Tutorial</i>
Fri, 16 Dec	MH:332A	Running MPI, Point-to-Point, Non-blocking
Tue, 17 Jan	<i>tbc.</i>	Debugging
Wed, 18 Jan	<i>tbc.</i>	<i>Tutorial</i>
Fri, 20 Jan	<i>tbc.</i>	Collectives, Communicators
Tue, 24 Jan	<i>tbc.</i>	Derived Data, MPI-IO, selected topics
Wed, 25 Jan	<i>tbc.</i>	<i>Tutorial</i>
Fri, 27 Jan	<i>tbc.</i>	Selected topics, Applications, Final project
Tue, 31 Jan	<i>tbc.</i>	<i>Reserve</i>
Wed, 1 Feb	<i>tbc.</i>	<i>Tutorial</i>
Fri, 3 Feb	<i>tbc.</i>	<i>Reserve</i>
“tba”		<i>Project presentations</i>

**Comment:** This schedule is *work in progress*. Due to other commitments the lecturer might be unavailable at short notice. The schedule will be pushed back in this case.