OpenCL

• General structure of openCL programs
• Understanding kernels
• Relation between kernels and index spaces
• Understanding work-groups and their restrictions/ impact on performance
• What is Coalescing and how does it work? Includes ability to optimise programs for coalescing
• Understanding the way local memory works as cache and how that can impact memory loads
OpenMP

• Basic principle of openMP
• Most important language constructs
• Being able to read and write openMP programs
• False sharing / reductions
• Variable declarations (shared, private etc)
• Different schedulings
SaC

- Basic model of execution
- Functional principles that underlie SaC
- Reading and writing SaC programs
- Array types in SaC
- Shape-invariant programming
- Basic principles of reference counting