

Schedule in Central Time

Monday

- 9:00 – 10:30 Lecture 1 – Introduction to computational thinking for many-core computing (Hwu)
- 10:30 – 11:30 introduction to the Lab, Lab 0 login, environment set-up
- 11:30-12:30 Lunch for UIUC site
- 12:30 – 2:00 Lecture 2 – Loop blocking and register tiling for locality (Hwu)
- 2:00 – 3:00 Hands-on Lab 1 – 2D Blocking and Register tiling (Stencil Code)
- 3:00 – 4:30 Keynote – Fermi Architecture and CUDA 4.0 (Kirk)
- 4:30 – 6:30 NCSA evening reception and rapid fire session

Tuesday

- 9:00 – 10:30 Lecture 3 – Scatter-to-Gather transformation for scalability (Hwu/Stratton)
- 10:30 – 11:30 Hands-on Lab 1(cont.) – 2D Blocking and Register tiling (Stencil Code)
- 11:30 – 12:30 Lunch for UIUC site
- 12:30 – 2:00 Lecture 4 - Cut-off and Binning for regular data sets (Hwu/Stone)
- 2:00 – 3:00 Hands-on Lab 2 – Binning for regular data sets and Data Layout
- 3:00 – 4:30 Lecture 5 - Data Layout for Grid Applications (Hwu/Stratton)

Wednesday

- 9:00 – 10:30 Lecture 6 – Regularizing sparse data (Hwu/Kirk)
- 10:30 – 11:30 Hands-on Lab 2 – Binning for regular data sets and Data Layout
- 11:30 – 12:30 Lunch for UIUC site
- 12:30 – 2:00 Lecture 7 – MPI/CUDA/GMAC Programming with interactive demo (Gelado)
- 2:00 – 3:00 Hands-on Lab 3 – MPI/CUDA/GMAC
- 3:00 – 4:30 Lecture 8 – CUDA Profiling and Debugging (Gelado)

Thursday

- 9:00 – 10:30 Lecture 9 – Graph Algorithms and Dynamic Data (Hwu)

- 10:30 – 11:30 Hands-on Lab 3 – MPI/CUDA/GMAC
- 11:30 – 12:30 Lunch for UIUC site
- 12:30 – 2:00 Project clinic 1 – three students present their proposed research projects for instructor and TA feedback (details TBA)
- 2:00 – 3:00 Hands-on Lab 4 – Data binning for sparse data
- 3:00 – 4:30 Project clinic 2 – three students present their proposed research projects for instructor and TA feedback (details TBA)
- 4:30 – 6:00 UIUC only – informal discussion with instructors and TAs about research projects

Friday

- 9:00 – 10:00 Lecture 9: Directions for Further Studies, wrap up (Hwu/Stratton)
- 10:00 – 11:00 Hands-on Lab 4 – Data binning for sparse data
- 11:00 – 11:45 Closing remarks, certificate and student feedback online survey for UIUC site
- 11:45 Box lunch to go or stay for UIUC site, Adjourn