Iowa High Performance Computing Summer School 2011
Schedule of Lectures and Activities

Dates: June 1–3, 2011
Location: 2523 UCC Training Room
Faculty: Professor Gregory Howes   University of Iowa
            Professor William Dorland   University of Maryland
            Professor Suely Oliveira   University of Iowa
            Professor Christian Ott   California Institute of Technology

	Wednesday, 6/1	
Time	Course	Lecturer
8:15–9:00am	Arrival and Getting Online	
9:00–9:30am	Welcome and Introductions	All Faculty
9:30–11:00am	Introduction to High Performance Computing	Howes
11:00–11:15am	Break	
11:15–12:15am	MPI Programming	Dorland
12:15–1:30pm	Lunch	
1:30–3:00pm	Hands-on Exercises	
3:00–4:00pm	Introduction to Parallel Hydrodynamics Code `HYDRO`	Howes
4:00–5:00pm	Hands-on Exercises	
	Thursday, 6/2	
Time	Course	Lecturer
9:00–10:30am	Multi-threading and OpenMP	Ott
10:30–12:00pm	Hands-on Exercises	
12:00–1:30pm	Lunch	
1:30–3:00pm	GPU Computing and CUDA Programming	Oliveira
3:00–4:30pm	Hands-on Exercises	
4:30–5:00pm	Discussion of Summer Computing Project	All Faculty
	Friday, 6/3	
Time	Course	Lecturer
9:00–10:30am	Parallel Performance and Optimization	Howes
10:30–12:00pm	Hands-on Exercises	
12:00–1:30pm	Lunch	
1:30–3:00pm	The Practice of High Performance Computing	Howes
3:00–4:00pm	Hands-on Exercises	
4:00–4:30pm	Evaluations, Questions, and Concluding Remarks	All Faculty