

**Summer School for Integrated Computational Education
July 18 – July 29, 2011**

Daily Schedule (May vary slightly day to day)

8:15 Breakfast available
 8:45-10:15 Session I
 10:15-10:30 Break
 10:30-12:00 Session II
 12:00-1:15 Lunch
 1:15-5:00 Session III with a break ~3PM.

Topics (Week 1)

Date	AM	PM	Evening
7/17 (Sun.)		Check-in at Lodging	Check-in at Lodging
7/18 (Mon.)	Registration Program Orientation (Katsuyo Thornton) Introduction (All who are present) Special Seminar: Peter Gumbsch (1hr) Welcome Luncheon at Noon	Computational Orientation (Katsuyo Thornton/Larry Aagesen) Computational Mechanics (Katsuyo Thornton)	
7/19 (Tues.)	Overview of CMSE (Katsuyo Thornton, 40 min) ICME (John Allison, 40 min) Computational Thermodynamics (Paul Mason, 1.5 hr)	Software Installation, Basics (Larry Aagesen/Katsuyo Thornton)	
7/20 (Wed.)	Density Functional Theory (Mark Asta, 1.5 hr) Molecular Dynamics (Mark Asta, 1.5 hr)	Module I (directed) Computational Thermodynamics (Paul Mason/others)	
7/21 (Thurs.)	Monte Carlo & Kinetic Monte Carlo (Anton Van der Ven, 1.5 hr) Computational Kinetics/Phase Field Modeling (Edwin Garcia, 1.5 hr)	Module II (directed) Computational Kinetics (Edwin Garcia/others)	Dinner Social
7/22 (Fri.)	Computational Materials Design in Education (Greg Olson, 1.5 hr) Effective Teaching (Tershia Pinder-Grover, 1.5 hr)	Module III (directed) Computational Mechanics (Katsuyo Thornton/Edwin Garcia)	
7/23 (Sat.)	(Students are expected to review materials over the weekend)	Canoe Trip (optional)	

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Topics (Week 2)

7/24 (Sun.)	10 AM: Scripting Workshop (Laura Bartolo, optional; lunch provided)	(Students are expected to review materials over the weekend)	
7/25 (Mon.)	Module I (self-directed) (Katsuyo Thornton/Mark Asta/Larry Aagesen)	Module I (self-directed/problem solving) (Katsuyo Thornton/Mark Asta/Larry Aagesen)	
7/26 (Tues.)	Module II (self-directed) (Katsuyo Thornton/Mark Asta/Larry Aagesen)	Module II (self-directed/problem solving) (Katsuyo Thornton/Larry Aagesen)	
7/27 (Wed.)	Module III (self-directed) (Katsuyo Thornton/Laura Bartolo/Larry Aagesen)	Module III (self-directed/problem solving) (Katsuyo Thornton/Laura Bartolo/Larry Aagesen)	
7/28 (Thurs.)	Practice Teaching Sessions (Katsuyo Thornton/Larry Aagesen)	Practice Teaching Sessions (Katsuyo Thornton/Larry Aagesen)	Graduation Dinner
7/29 (Fri.)	Research Q&A	Research Q&A	Departure