Introduction to Computational Materials Science and Engineering Tools
Short Course
July 11-12, 2013 • Salt Lake Marriott Downtown at City Creek • Salt Lake City, Utah

Course Schedule:

Thursday, July 11

<u>Density Functional Theory</u>

1:00 - 2:20 p.m.	Introductory Lecture on Density Functional Theory
2:20 - 2:30 p.m.	Break
2:30 - 3:00 p.m.	NanoHUB Account Creation/Introduction to Quantum Espresso
3:00 - 5:00 p.m.	Work on DFT Module Sample Problems
5:00 - 6:00 p.m.	Dinner Break

<u>Computational Kinetics /Diffusion</u>

6:00 - 7:00 p.m.	Lecture on Computational Kinetics/Diffusion
7:00 - 7:10 p.m.	Break
7:10 - 7:30 p.m.	Walk-through of FiPy on NanoHUB
7:30 - 8:30 p.m.	Work on Kinetics Module Sample Problems

Friday, July 12

<u>Thermo-Calc</u>

8:30 - 9:30 a.m.	Introductory Lecture on Thermo-Calc
9:30 - 10:00 a.m.	Installation/Break
10:00 - 10:30 a.m.	Lecture on Module Background
10:30 - 11:00 a.m.	Walk-through of Thermo-Calc Examples
11:00 a.m. - 12:00 p.m.	Work on Thermo-Calc Module Sample Problems
12:00 - 1:00 p.m.	Lunch

<u>Computational Mechanics</u>

1:00 - 2:00 p.m.	Introductory Lecture on Computational Mechanics
2:00 - 2:10 p.m.	Break
2:10 - 4:00 p.m.	Walkthrough of OOF2
4:00 - 4:10 p.m.	Break
4:10 - 6:00 p.m.	Work on Computational Mechanics Sample Problems