

**PKU/PSU Summer Program Schedule**  
**July 15 ~ Aug 11, 2010**

- July 15 and July 16: Students arrival from China.
- July 17, 11:00 AM: **Opening remarks; Lunch meeting; Campus tour.**
- July 18: **Meet with Gilbert for visa related issues.**
- **Week 1**
  - July 19, 12:45 PM: Lecture 1 -- Differential equations; First order methods;
  - July 20, 12:45 PM: Lecture 2 -- Analysis of first order methods;
  - **July 21, Visit Belleville Farmer's Market**
  - July 22, 12:45 PM: Lecture 3 -- Stability Analysis;
  - July 23, 12:45 PM: Lecture 4 -- Runge-Kutta methods;
  - **July 24, Trip to Atlantic City.**
- **Week 2**
  - July 26, 12:45 PM: Lecture 5 -- Runge-Kutta methods continued;
  - July 27, 12:45 PM: Lecture 6 -- Stiff problems and implicit methods;
  - **July 28, 11:00 AM: Lecture by Prof. Belmonte.**
  - July 29, 12:45 PM: Lecture 7 -- Multistep methods;
  - July 30, 12:45 PM: Lecture 8 -- Heat equations; Explicit method.
- **Week 3**
  - Aug 2, 12:45 PM: Lecture 9 -- Stability Analysis.
  - Aug 3, 12:45 PM: Lecture 10 -- Higher order method; Error estimate.
  - **Aug 4, 3PM: The Creamery Tour**
  - Aug 5, 12:45 PM: Lecture 11 -- First order and second order wave equations;
  - Aug 6, 12:45 PM: Lecture 12 -- Finite difference method, and CFL condition;
  - **Aug 7, Trip to New York City.**
- **Week 4**
  - Aug 9, 12:45 PM: Lecture 13 -- Laplace equation;
  - Aug 10, 12:45 PM: Lecture 14 -- Finite difference method for Laplace equation.
  - **Aug 10, 3:00 PM: Presentation of Research Projects.**
  - **Aug 11: PKU Students departure.**
  - **Aug 13, 3:00 PM: Class Projects Due.**