CS553: Agenda (tentative, subject to changes)

- **Week 1: Introduction to trends in computing (software, hardware)**

- **Week 2: evaluation lab I, intro to performance measurement of a C program**

- **Week 3: no class (instructor on travel).**   HW1 assigned

- **Week 4: presentation of homework 1, SIMD vectorization, roofline model**

- **Week 5: SIMD vectorization**   HW1due

- **Week 6: homework 1 correction, presentation of homework 2, OpenMP.**   HW2 assigned

- **Week 7: OpenMP parallelization**

- **Week 8: midterm preparation/review, midterm.**   <u>Midterm exam</u>   HW2 due

- **Week 9: midterm and homework 2 correction, presentation of homework 3, Profiling**   HW3 assigned

- **Week 10: Profiling tools, hardware performance counters, performance analysis**

- **Week 11: Loop nest optimizations**   HW3 due

- **Week 12:** *TBD*   HW4 assigned

- **Week 13:** *TBD*   HW4 due

- **Week 14: no class (Thanksgiving)**

- **Week 15:** *TBD*   HW5 assigned

- **Week 16: Final exam preparation, review of material, evaluation lab II**   HW5 due

- **Week 17: Final exam Tuesday Dec. 11, 6:20pm in CSB425**   <u>Final exam</u>