Quantum Algorithms  
CSPC 440/640, Syllabus

**Instructor:** Dr. Andreas Klappenecker  
**Office:** 509B Harvey R. Bright Building  
**Office hours:** TBD  
**Class schedule:** MWF 11:30am-12:20pm (subject to change, we might switch to a MW schedule).

**Course Goals.** The course CPSC 440/640 gives a self-contained introduction to quantum algorithms, one of the most exciting recent developments in computer science.

**Background.** We do not expect any background knowledge in quantum computing nor in quantum physics. You should know how to multiply a matrix with a vector, but the most important prerequisite is simply an open mind.

**Grading Policy.** Midterm exam 25%, final project 25%, assignments 45%, culture 5%. The grades will be assigned on an absolute scale: A=90-100, B=80-89, C=70-79, D=60-69, F=0-59. I will lower the cut-offs if the grades are lower than expected.

The assignments will consist of about 6 paper and pencil homeworks and one small project. You have to submit 3 written summaries of talks or papers to satisfy your culture requirements.

**Dishonesty.** Cheating will not be tolerated – see the Aggie code of honor. Cheating and plagiarism will be rewarded with the grade F*.

**Required Textbook**


**Further information**

- [http://faculty.cs.tamu.edu/klappi/qalg-f06/qalg.html](http://faculty.cs.tamu.edu/klappi/qalg-f06/qalg.html)