

SCMP 401: Scientific Computing Seminar, Spring 2017 General Course Information

Class Meeting: Monday nights 7:10-10 pm.

Professor: Noah Aydin **Office:** RBH 319 **Phone:** 5674 **E-mail:** aydinn@kenyon.edu

Class web page: <http://www2.kenyon.edu/depts/math/aydin/teach/401>

Office Hours: M-F 10:10-noon and by appointment

Course Description: The capstone course is designed to provide an in-depth experience in computational approaches to sciences. Each student will complete a computational project in a field and topic of interest to the student under the supervision of a Kenyon faculty member. Prerequisites: Scmp 118 or Phys 270, completion of at least 0.5 unit of an intermediate course in Scmp, junior or senior standing, and permission of the instructor.

Goals: The primary goals of this course are

- To explore how computers can be used to solve a variety of complex problems
- To develop oral and written communication skills
- Learn new topics in other disciplines and how computational methods can be used to solve them

Grades: Final grades will be determined based on the performance in the following components.

Component	Weight
Attendance and Quality of Participation	30%
Presentations	40%
Final Written Report	30%

Attendance, Participation and Enthusiasm: Attendance is mandatory. Attendance and participation are a significant part of your grade. In the case of extraordinary circumstances, a student should consult the instructor in advance. Each unexcused absence will lower your grade on this component. While full attendance is necessary for a high grade in this component, it is not sufficient. Quality participation in class discussions is another key component. When a student presents his/her work, the rest of the class will listen attentively, and provide quality feedback. The following qualities will be considered for participation grade: attentive listening, contributing quality ideas, asking appropriate questions, constructively challenging the accuracy and relevance of statements made, having read assigned materials (if prior reading materials are assigned) and with reflections, positive attitude and respectfulness of peers, and enthusiasm for the course.

Important Dates: See class web site for the schedule of presentations. The final paper is due 4 pm on Friday, May 5.

Academic Honesty: At Kenyon we expect all students, at all times, to submit work that represents the highest standards of academic integrity. It is the responsibility of each student to learn and practice the proper ways of documenting and acknowledging those whose ideas and words they have drawn upon (see Academic Honesty and Questions of Plagiarism in the Course Catalog). Ignorance and carelessness are not excuses for academic dishonesty. You may discuss your projects with others, but *the final submitted work must be done independently and should reflect your own understanding*. Violation of this rule will result in a report to AIB (Academic Infractions Board). If you are uncertain about the expectations for this class, please talk to me for clarification.

Disabilities: If you have a disability that requires an accommodation in this class, please feel free to discuss your concerns with me as soon as possible. Also, you are required to register for support services with the Office of Disability Services in the Olin Library, Center for Innovative Pedagogy. Please contact Erin Salva at 5453 or email salvae@kenyon.edu. Though I am happy to help you in any way I can, I cannot make any accommodations for learning (or other) disabilities without proper authorization from Ms. Salva.

Statement on Title IX

Kenyon College seeks to provide an environment that is free of gender bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault, interpersonal violence, or stalking we encourage you to report this. If you report this to a faculty member, she or he must notify Kenyon's Title IX coordinator of any information about the incident that you provide. Kenyon College's Title IX and VAWA Policy is available at: <http://www.kenyon.edu/directories/offices-services/title-ix/policy/>