Professor: Chris Jones

Office: Galileo Hall 106A. Phone: 8047.
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Office Hours: MWF 9:30–11:00am pretty much always. Most TTh mornings.

Class: MF 1:00–2:40pm, Galileo 107.

References for Writing: (On Reserve in the SMC Library)
Handbook of Writing for the Mathematical Sciences, by Nicholas J. Higham, SIAM, 1998
A Primer of Mathematical Writing, by Steven G. Krantz, AMS, 1997

Organization of the Course

• During September and early October students will read about various topics, discuss
  the topics, make presentations on them to the rest of the class, and discuss/present
  problems pertaining to these topics. Emphasis on the clarity of both written and oral
  expression will be expected. A particular focus will be placed on proofs.

• At the same time, each student will be working on his/her senior essay under the
  supervision the mathematics faculty member assigned in the Spring.

• By mid September students will define their essay topic and hand in the initial bib-
  liography. They will also have determined a “committee” who will read through the
  essay and offer constructive advice. All committees will include Prof. Jones, one other
  faculty member and another student from the class.

• During October and November, students will write their essay, meeting regularly with
  the class and individually with their advisors to present progress reports.

• Essays will be presented to the public on 11/18, 11/22, 11/25, 12/2 and 12/6.

• Final corrections of the manuscript will be made by December 9th.
Learning Goal
To learn by experience how to present mathematics via lectures and formally writing.

Learning Outcomes
(a) Students will demonstrate a mastery of the core SMC undergraduate mathematics curriculum;
(b) Students will communicate mathematical ideas and concepts correctly and clearly in both oral and written forms;
(c) Students will prepare and undertake a scholarly investigation using appropriate mathematical resources;
(d) Students will integrate the use of a variety of technological tools into the essay and presentation;
(e) Students will demonstrate knowledge of connections within mathematics and of applications to other fields.

Grading: Your grade will be based on the quality of your essay, your final presentation, and the work you do during the semester, which includes how you met the deadlines.
**Deadlines**

Monday, September 16th, class time:
Definition of the essay (form attached) due. Give a five-to-ten minute introduction to the class on your essay.

Monday, September 23rd, class time:
First draft of essay due: an outline indicating sections of the essay and specifying the content of each section.

Monday, September 30th, class time:
First third of the essay due.
Give a five-to-ten minute talk to the class on your essay.

Monday, October 14th, class time:
Second third of the essay due.
Give a five-to-ten minute talk to the class on your essay.

Monday, October 28th, class time:
Third third of the essay due (this is a first draft—yay!).
Give a five-to-ten minute talk to the class on your essay.

Monday, November 4th, class time:
Second draft is due.
2–3 students will give practice presentation to groups in class.

Friday, November 8th, class time:
2–3 students will give practice presentation to groups in class.

Monday, November 11th, class time:
2–3 students will give practice presentation to groups in class.

Friday, November 15th, class time:
Fourth draft is due. This draft should be fairly final. Copies are due to your committee.
2–3 students will give practice presentation to groups in class.

Monday, November 18th – Friday, December 6th:
Final Presentations, with 2 on a given day during class time.
After your presentation gather your committee’s feedback into your draft to produce (the final version of) your essay.

Monday, December 9th, class time
The final version of your essay is due.
Math 193
Definition of the Essay

Due Friday, September 16th, class time

Student Name:

Essay supervisor:

Second Reader:

Topic:

Bibliography: