MATH 400: Senior Seminar
Spring 2017   **Section 001**   **3 credit hours**

Instructor:	Dr. Kristen Abernathy	**Course time**	MW 8:00 – 9:15,
Office:	Bancroft 148	**& location:**	Owens 204

Office Phone: 803.323.4681

Math Department: 803.323.2175

Campus Email: abernathyk@winthrop.edu

Office Hours
MW: 1:30 – 2:30 pm
Other times by appointment.

The instructor reserves the right to make modifications to these requirements. Students will be notified of such modifications.

Course requirements, evaluations:
- Each project (2 total)
  - ✓ Outline (2%)
  - ✓ Math presentation (5%)
  - ✓ First written draft (3%)
  - ✓ Final written draft (13%)
  - ✓ Oral presentation (13%)
- Attendance/participation (15%)
  - ✓ Class sessions
  - ✓ Peer reviews
  - ✓ Blackboard
  - ✓ Guest speakers
- Portfolio & Conference Day presentation (13%)

Grading: To receive a passing grade, you must satisfactorily accomplish each oral presentation, written project, and the portfolio. To ensure you receive a certain letter grade (or better), you must attain a minimum overall percentage. These minima follow.

A	93	B-	80	D+	67
A-	90	C+	77	D	63
B+	87	C	73	D-	60
B	83	C-	70	F	0

The portfolio requirements follow are given below. Other detailed course evaluation requirements will be supplemented in class and posted on Blackboard.

Portfolio requirements:
- Digital submission
- Title Page
- Table of Contents
- Neat, finalized content per assignment requirements
  - ✓ Oral presentation 1
  - ✓ Written project 1
  - ✓ Oral presentation 2
  - ✓ Written project 2

Required Text: None.

Related university level competencies

ULC 3: Winthrop graduates understand the interconnected nature of the world and the time in which they live. Winthrop University graduates comprehend the historical, social, and global contexts of their disciplines and their lives. They also recognize how their chosen area of study is inextricably linked to other fields. Winthrop graduates collaborate with members of diverse academic, professional, and cultural communities as informed and engaged citizens.

Students complete two projects in the course. The first concerns an accomplished mathematician and his or her contributions to the field, as well as how their work affected future mathematics and mathematics applications. The second concerns a "present day" or future application of mathematics; part of this research is to explore the historical background of this topic/application.

ULC 4: Winthrop graduates communicate effectively. Winthrop University graduates communicate in a manner appropriate to the subject, occasion, and audience. They create texts – including but not limited to written, oral, and visual presentations – that convey content effectively. Mindful of their voice and the impact of their communication, Winthrop graduates successfully express and exchange ideas.

This course satisfies the oral communication and intensive writing programs of Winthrop's General Education program, through the course requirements and evaluations detailed at the beginning of this syllabus.

Course criteria for inclusion in the General Education Program, oral communication component
1. This course includes thorough instruction of oral communication skills appropriate to mathematics.
2. This course includes multiple opportunities to demonstrate competence in oral communication.
3. This course includes specific criteria for evaluation, which are provided to and discussed with students.
4. Evaluation in this course includes oral or written comments by the instructor, with specific instructions for improvement.

Course goals/student learning outcomes
1. Increase students' competence in the independent reading of mathematical materials
2. Develop the ability to communicate mathematics both orally and in writing
3. Pursue topics in mathematics not met in previous mathematics courses
4. Further explore several topics or integrate multiple core topics that have been studied earlier
5. Improve skills in utilizing resources

6. The global learning component of this course: Develop a global perspective of the role of mathematics in society, through incorporated studies involving mathematical history and applications.
7. Adopt high ethical standards in writing a paper or in conduction of research

Attendance Policy
Attendance at all scheduled class events is strongly encouraged, and is a significant portion of your course grade. The University attendance policy is stated in the current catalog at http://www.winthrop.edu/recandreg/default.aspx?id=7380 .

Students with Disabilities

Winthrop University is dedicated to providing access to education. If you have a disability and require specific accommodations to complete this course, contact the Office of Disability Services (ODS) at 323-3290. Once you have your official notice of accommodations from the Office of Disability Services, please inform me as early as possible in the semester.

Academic Integrity

Review the student code of conduct for university polices on academic misconduct. Academic misconduct will not be tolerated and will result in a failing grade on the assignment and/or in the course. The full handbook is available online at
http://www.winthrop.edu/uploadedFiles/studentconduct/StudentHandbook.pdf.

Important Dates

SU Deadline:	March 8	**Course Withdraw Date:**	March 8
Spring Break:	March 13-17	**Final Exam:**	May 2

Electronic Devices: See the College of Arts & Sciences policy at
http://www.winthrop.edu/uploadedFiles/artscience/PolicyForHandHeldTech-April2014.pdf.

Links to the Touchstone Program: This course meets the Logic, Language, and Semiotics requirement through activities and requirements that require students to use logic and mathematical information to draw reasonable conclusions and to use the symbols and language of mathematics to communicate about problems and to present solutions.

Tentative schedule

Date	Subject	Deadlines and presentations
January 9	Course introduction, library resources	Pre-course survey
11	Oral presentation discussion	Reflection due (Blackboard)
18	Oral presentation discussion	Topic/Primary source declared (Blackboard)
23	Work/Feedback day	
25	Mathematical writing discussion	
30	MFT discussion	Outline 1 due
February 1	Work/Feedback day	
6	Math presentation 1	Written first draft 1 due
8	Math presentation 1	
13	Math presentation 1	
15	Work/Feedback day	
17	MFT	3 – 5p, Sims 114 (Arrive 2:30, if possible)
20	Work/Feedback day	Written final draft 1 due
22	Oral presentation 1	Application/Primary source declared (Blackboard)
27	Oral presentation 1	
March 1	Oral presentation 1	
6	Work/Feedback day	Outline 2 due
8	Work/Feedback day	
20	Math presentation 2	Written first draft 2 due
22	Math presentation 2	
24	MFT	3 – 5p, Sims 114 (Arrive 2:30, if possible)
27	Math presentation 2	
29	Work/Feedback day	
April 3	Oral presentation 2	Written final draft 2 due
5	Oral presentation 2	
10	Oral presentation 2	
12	Work Feedback day	
18	Math conference day (common period)	Conference presentation
20	Math conference day (common period)	Conference presentation
24	Senior survey	
May 2	Final Exam	Portfolio due, 11:30 am