Syllabus
MATH 4181 – Senior Seminar
University of St. Thomas – Fall 2015

Instructor: Dr. Brett Werner
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Phone: (713) 525-3189

Office Hours: Monday 1 – 2 PM, Wednesday 10 AM – Noon, Tuesday & Thursday 11 AM – 1 PM
Course Times and Location: Friday 1:10 – 2:25 PM, Malloy Hall 113

Course Objectives
- Become competent in writing mathematical documents in the LaTeX language
- Increase competency in reading and writing mathematics
- Improve skills with presenting technical information

Text
No text is required for this course

Course Summary
In this course, you will write a paper on a mathematical topic/paper of your choosing. Once you select your mathematical topic, you will then need to find a paper on this topic that you will read. You will then be asked to write a paper and do a presentation over what you learned in the paper using the LaTeX typesetting language.

Grading
Your grade will be based on the following items:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>LaTeX Homework</td>
<td>10%</td>
</tr>
<tr>
<td>Short Presentation</td>
<td>15%</td>
</tr>
<tr>
<td>Final Presentation</td>
<td>25%</td>
</tr>
<tr>
<td>Final Paper</td>
<td>50%</td>
</tr>
</tbody>
</table>

The following scale will be used to determine final letter grades:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>93 – 100</td>
</tr>
<tr>
<td>A-</td>
<td>90 – 92</td>
</tr>
<tr>
<td>B+</td>
<td>87 – 89</td>
</tr>
<tr>
<td>B</td>
<td>83 – 86</td>
</tr>
<tr>
<td>B-</td>
<td>80 – 82</td>
</tr>
<tr>
<td>C+</td>
<td>77 – 79</td>
</tr>
<tr>
<td>C</td>
<td>73 – 76</td>
</tr>
<tr>
<td>C-</td>
<td>70 – 72</td>
</tr>
<tr>
<td>D</td>
<td>67 – 69</td>
</tr>
<tr>
<td>D-</td>
<td>63 – 66</td>
</tr>
<tr>
<td>D</td>
<td>60 – 62</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60</td>
</tr>
</tbody>
</table>
LaTeX Homework
Throughout the course, I will ask you to do a few homework assignments that will test your competency in LaTeX.

Presentations
You will be asked to do two presentations during the course. The first presentation will be a short presentation (approximately 15-20 minutes) done during the first few weeks of the course where you will present the topic you have chosen and outline your plan of action. Once you have read the paper you have chosen, near the end of the course you will do a final presentation (approximately 30-45 minutes). This presentation should summarize what you have learned from the paper. Both presentations should be done using LaTeX/Beamer and will be graded on the following criteria:

Presentation Appearance/Grammar: 20%
Audience Engagement: 20%
Flow: 20%
Content: 40%

Final paper
The final paper should be a thorough summary of what you have learned from the paper, and I would recommend the paper be approximately 10 pages double-spaced. The paper should have clear introduction, content, and conclusion sections. Your final paper should also be done using LaTeX and will be graded on the following criteria:

Document Appearance/Grammar: 25%
Flow: 25%
Content: 50%

Blackboard
Blackboard (BB) is where you'll go to find announcements, access course documents, and view your grades. To access BB, go to https://blackboard.stthom.edu/. The login credentials for BB are your Celt login ID username and password,

Course Schedule
8/28 Introduction to LaTeX & Beamer/Discuss topics
9/4 Labor Day weekend ~ No class
9/11 Dr. Werner presentation/Discuss topics
   - Have topic chosen and prepare short presentation for the following week
9/18 Short presentations on chosen topics
9/25 Finish presentations (if necessary)/Discuss topics
10/2 Study day or outside presentation
   - Should have topic and paper finalized
10/9 Study day or outside presentation
10/16 Study day or outside presentation
10/23 Study day or outside Presentation
10/30 Study day or outside Presentation
11/6 Study day or outside Presentation
11/13 Start final presentations
11/20 Continue final presentations
11/27 Thanksgiving break - No class
12/4 Finish final presentations (if necessary)/Final paper due