Senior Capstone Project in Mathematics

Getting Started

- 1. Resources for project ideas:
 - Books
 - "Proofs from THE BOOK" by Martin Aigner and Günter M. Ziegler
 - "Math Talks for Undergraduates" by Serge Lang
 - "The Mathematical Tourist" by Ivars Peterson (associated blog: http://mathtourist.blogspot.com/)
 - YouTube videos highlighting interesting math problems
 - Numberphile https://www.youtube.com/user/numberphile
 - TED-Ed https://www.youtube.com/user/TEDEducation
 - Vi Hart https://www.youtube.com/user/Vihart
 - Advanced problems from course textbooks
- 2. Resources for mathematical writing
 - "A Primer of Mathematical Writing" by Steven Krantz: https://arxiv.org/abs/1612.04888
 - Student Writing Support @ UMN: http://writing.umn.edu/sws/index.html
 - Assignment Planner for Research Papers frum UMN Library: https://www.lib.umn.edu/ac/research-paper

Student-Adviser Mathematics Capstone Project Contract

| Student: Adviser: | |
|---|---------------------------|
| Semester: Year: | |
| Project Topic/Title: | |
| This is an optional contract to be agreed upon between the student and the this contract should be filled out before the add/drop date of the semester. Set | |
| following project milestones, to be checked by the adviser when complete. A reco | v |
| generated at https://www.lib.umn.edu/ac | |
| $\hfill\Box$ Project topic/research question decided | / |
| $\hfill\Box$ Provide list of resources/bibliography | / |
| $\hfill\Box$ Submit first draft (recommended before halfway point of semester) | / |
| At this time, the adviser will check one of the following boxes: | |
| \square Writing quality meets expectations | |
| \Box Writing quality does not meet expectations, and the student will sche | edule an appointment with |
| Student Writing Support: http://writing.umn.edu/sws/index.htm | 1 |
| $\hfill\Box$ Submit second draft/rewrite (scheduled after SWS meeting if applicable) | / |
| \square Submit final draft | / |
| Additional milestones, if desired: | |
| | / |
| | / |
| | / |
| | |
| Student signature and date: | _ |
| Adviser signature and date: | |