

MATH 5335/5810: THE HEART OF MATHEMATICS
Project General Directions and Assessment Information

KEY TO PROJECT SUCCESS

Every team member should work together and equally on your research project.

Research Project check-in 1: Friday 27 June

Research Project check-in 2: Friday 11 July

Research Project Presentations: Wednesday, Thursday, Friday 23, 24, 25 July

REQUIRED RESOURCES/REFERENCE MATERIALS

- Approved section from The Heart of Mathematics
- Book related to topic from library or other approved source (at least one)

PROJECT OVERVIEW

Your power point presentation must help the other students understand what your topic is, see the beauty of this topic and see some of the mathematics from this topic. Your power point presentation should address each of the following.

- **Mathematical Topic**
General description and introduction: include overview materials/ideas the audience will need to follow the rest of your presentation and include an explanation of why this topic is beautiful, appealing and important to know about.
- **Mathematical Examples**
At least one worked out mathematical examples from this topic.
- **Historical Relevance of Topic**
Brief description of the historical relevance of the topic, perhaps including very brief information about a famous mathematician known for their work in this field.
- **Bibliography**
Example:
E Burger and M Starbird, "The Heart of Mathematics: An Invitation to Effective Thinking, 4nd edition," Wiley, 2013

- Length
25-35 pages that includes a title page and bibliography
25-35 minute power point presentation of your mathematical topic

Your presentation may be

- Demonstrative (bouncing balls)
- Interactive (handouts)
- Dramatic (song, skit)
- Technologically fancy (video clips)
- Combination of any of these

The Mathematics and Computer Science Department has a surprising array of materials!

PRESENTATION WILL BE ASSESSED FOR

Effectiveness of creating snapshot of your topic

Effectiveness of presenting ideas from your topic in an understandable way

Effectiveness of sharing mathematical ideas with the rest of the class

Effectiveness of using poster to share ideas with the rest of the class

Creativity, quality and originality of presentation

Mathematical correctness

Polish of presentation (your team must PRACTICE!)

Spell check!

Length of time

Equal sharing of presentation by each team member

Attendance at all presentations