MATH 180, Knot Theory

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Fall 2017
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Text
The Knot Book,
By Colin Adams
American Mathematical Society
(any edition is fine)

Grading
There will be homework and a final project. There will also be required in-class work.

Grading: homework and in-class work 50%, final project 50%

Office Hours
Office hours are Mondays 2-3:30, starting 10/9. I can also make appointments outside of the scheduled time.

Homework

HW1, Due 10/6:
Read: 1.1-1.5
Do: problems 1.2-1.7
Write up carefully and turn in: 1.6 and a proof of
Theorem: There are a countably infinite number of distinct knots.

HW2, Due 10/18:
Do: problems 1.11,1.17,1.18,1.19,1.21,1.26,1.28
Write up carefully and turn in: 1.26 and 1.28

HW3, Due 10/27:
Do: problems 3.4,3.6,3.8,3.12a,3.13
Write up carefully and turn in: 3.9, *and*
explain why b(K#J) is "obviously" less than or equal to b(J)+b(K)-1.

https://www.math.ucdavis.edu/~thompson/180sy...
**Final Projects Schedule:**
10/20: Submit the names of the members of your group.
10/23: Groups assigned to topics.
10/27: Submit the subtopics each group member proposes to write on.
11/20: Submit a draft of the slides for the presentation.
11/27: Submit drafts of subtopic write-ups.
12/1: Project presentations begin.
12/8: Project presentations finish; subtopic write-ups due.

**Final Projects Presentations:**
12/4: Groups 1, 2, 3
12/6: Groups 4, 5, 6
12/8: Groups 8, 9, 10