

MA 145 Liberal Arts Mathematics Spring 2009 Tentative Calendar

| M | T | W | Th | F | Notes |
|---|------|---|------|---|--|
| 19 | 20 | 21 Intro, Surfing the Text | 22 | 23 §§1.1, 1.2 Story Discussion; Stories 1, 3, 5, with help from Software | HBA: With a study group, listen and discuss JOT 2 – 5. |
| 26 22 §§1.1, 1.2 Story Discussion: Stories 4, 7, 8 with help from software: Solutions | 27 | 28 §2.1 Counting A1 due | 29 | 30 §2.1 Counting continued | HBA: Typing Equations in Word: HO |
| Feb 2 §2.2 Numerical patterns in nature | 3 | 4 §2.2 Numerical Patterns in nature | 5 | 6 - Writing mathematics Bring Rough Draft* of Essay 1 to class. | *Rough Draft: 10% of essay grade; must be complete, typed, double spaced. |
| 9 §2.2 Fibonacci and Phi | 10 | 11 §2.2 Fibonacci and Phi | 12 | 13 | |
| 16 | 17 | 18 §2.3 Prime Cuts of Numbers | 19 | 20 §2.3 Prime Cuts of Numbers cont | |
| 23 §2.6 Irrational Side of Numbers | 24 | 25 §2.6 continued and §2.7 Get Real | 26 | 27 §2.7 Get Real continued; Review | HBA: Use Geometer's Sketchpad plus to show a segment of length $\sqrt{2}$ |
| March 2 Homework Questions A2 due | 3 | 4 §3.1 Beyond Numbers: One to one correspondence Essay 2 Assigned | 5 | 6 Test 1 Final Draft of Essay 1 due | |
| 9 §3.2 Comparing the Infinite | 10 | 11 §3.3 The Missing Number | 12 | 13 §3.4 A Stratosphere of Infinities | HBA: Use Geometer's Sketchpad to show "straightening the circle." |
| 16 §3.5 Continued: Proof by Contradiction (again) | 17 | 18 §4.1 Pythagorean Theorem Handout A3 due | 19 | 20 §4.3 The Sexiest Rectangle | HBA: With a study group, listen and discuss JOT 6 – 10. |
| 23 §4.5 Platonic Solids DVD: Building a table of data | 24 | 25 §5.3 Feeling Edgy. | 26 | 27 §4.7 From one dimension to another: JOT 11 with partner work | HBA: Use Geometer's Sketchpad plus to make a Golden Rectangle." |
| 30 §4.7 Fourth dimension: JOT 12 | 31 | April 1 HW Questions and essay Discussion Rough Draft E2 to class | 2 | 3 Test 2 A4 due | |
| 6 | 7 | 8 | 9 | 10 | |
| 13 §4.6 The Shape of Reality | 14 | 15 §4.6 The Shape of Reality | 16 | 17 §5.1 Rubber Sheet geometry | |
| 20 §6.1 Images: partner Worksheet Final Project Assigned | 21 | 22 Changing Dynamics: Game of Life A5 due | 23 | 24 §6.2 Continued | HBA: Use Excel to show population change over time.. |
| 27 §6.3 Fractals Final Project Plans (Topic and Personnel) due | 28 | 29 §6.3 Fractals (computers) | 30 - | May 1 §6.5 Predetermined chaos- | |
| 4 §7.1 Chance Surprises A6 due | 5 | 6 §7.2 Predicting the Future | 7 | 8 §7.2 Predicting the Future | HBA: Use Excel to show the solution to the birthday problem. |
| 11 §7.3 Random Thoughts | 12 | 13 §7.4 Down for the Count | 14 | 15 Homework questions and Essay 3 discussion. Rough Draft E3 to class | |
| 18 - Test 3 A7 due | 19 - | 20 - Final Project Work Day Essay 3 due | 21 - | 22 | |
| 25 | 26 | 27 Project Presentations 8.10 – 10.40 | 28 | 29 | |

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