History of Mathematics (MTH 3000)

Fall 2018

University of Cincinnati

Tentative Course Schedule

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| WEEK | Monday | Wednesday | Friday |
| 1 | Introductions  Syllabus Overview  Schedule Rundown   * Intro to Math History and arithmetic | Thales 640 BC  Chapter 1 | Pythagoras 572 BC  Chapter 1  Homework 1 Assigned |
| 2 | Hippocrates of Chios 540 BC  Discuss Question 1.6 from Homework  Chapter 1 | Finish Chapter 1: Great Theorem  Eudoxus 400 BC  Chapter 2 | Euclid 300s BC  Chapter 2  Homework 1 Due |
| 3 | Labor Day No Class | Euclid 300s BC  Chapter 2  Discuss Question 15 from Homework  Homework 1 Graded Due  Homework 2 Assigned | Euclid 300s BC  Chapter 3  Discuss Questions 39-41 from Homework |
| 4 | Euclid 300s BC  Chapter 3 | Euclid 300s BC  Chapter 3 | Catch Up / Finish Euclid / Start Midterm Review  Pre-300 BC  Homework 2 Due |
| 5 | Midterm Review  Homework 2 Graded Due | Midterm 1 (tentative)  Chapters 1 - 3, preliminaries | Archimedes 200s BC  Chapter 4 |
| 6 | Archimedes 200s BC  Chapter 4  Homework 3 Assigned | Finish Archimedes Masterpiece  Chapter 4  Eratosthenes 200s BC  Chapter 5 | Finish Eratosthenes  Apollonius 200s BC  Chapter 5 |
| 7 | Homework 3 Due  Start Heron 75 AD  Chapter 5 | Finish Heron 75 AD  Chapter 5  Start POP UP:  Diophantus 200s AD | POP UP: Diophantus 200s AD  Al Khwarizmi 9th cent  Bhaskara 12th century  Homework 3 Graded Due  Homework 4 Assigned |
| 8 | Reading Days No Class | Pacioli/Ferro/Fior/Tartaglia 1445-1557  Chapter 6  Homework 4 Due | Cardano 1501-1576  Chapter 6 |
| 9 | Finish Cardano: Great Theorem  Chapter 6  Homework 4 Graded Due  Homework 5 Assigned | POP UP: Mersenne 1588-1648 (optional)  Start Chapter 7 | British/European Men 1500s-1600s  Chapter 7  Homework 5 Due |
| 10 | Midterm Review  Homework 5 Graded Due | Midterm 2 (tentative)  Chapter 4-6, Pop Ups | Frenchmen Late 1500s - 1600s  Chapter 7 |
| 11 | Newton 1642-1726  Chapter 7 | Newton 1642-1726  Chapter 7  Homework 6 Assigned | Finish Newton: Great Theorem  Chapter 7  Leibniz 1646-1716  Huygens 1629-1695  Chapter 8 |
| 12 | Veterans Day No Class | Leibniz 1646-1716  Chapter 8 | The Brothers Bernoulli 1654-1748  Chapter 8  Homework 6 Due  Homework 7 Assigned |
| 13 | Finish Bernoulli: Great Theorem and Challenge of the Brachistochrone (optional)  Chapter 8  Homework 6 Graded Due | Euler 1707-1783  Chapter 9  Homework 7 Due | Finish Euler: Great Theorem  Chapter 9 |
| 14 | Euler: The Legacy of Fermat  Chapter 10  Homework 7 Graded Due  Homework 8 Assigned | Euler: Great Theorem  Chapter 10 | Thanksgiving Break No Class |
| 15 | Mathematicians of the Nineteenth Century  Chapter 11  Homework 8 Due | Modern Day Mathematicians and modern mathematics  -- what is new and current in the field, where can it go? (optional)  Begin Final Review | Final Review  Homework 8 Graded Due |
| Finals Week | TBD | TBD | TBD |