



## Foundations of Mathematics 20

### Course Outline

Miss Berscheid – Room 167A

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<b>Chapter</b>	<b>Outcomes</b>	<b>Time Line (approximate)</b>
Ch.1 – Inductive and Deductive Reasoning	FM 20.1 Demonstrate understanding of the mathematics involved in a historical event or an area of interest.	Sept. 8 – Sept. 21 (12 hours)
Ch. 2 – Properties of Angles and Triangles	FM 20.4 Demonstrate understanding of properties of angles and triangles including: <ul style="list-style-type: none"> <li>- Deriving proofs based on theorems and postulates about congruent triangles</li> <li>- Solving problems</li> </ul>	Sept. 24 – Oct. 5 (10 hours)
Ch. 3 – Acute Triangle Trigonometry	FM 20.5 Demonstrate understanding of the cosine law and the sine law.	Oct. 9 – Oct. 19 (10 hours)
Ch. 4 Oblique Triangle Trigonometry	FM 20.5 Demonstrate understanding of the cosine law and sine law (including the ambiguous case).	Oct. 23 – Nov. 2 (10 hours)
Ch. 5 – Statistical Reasoning	FM 20.6 Demonstrate an understanding of normal distribution, including standard deviation and z-scores FM 20.7 Demonstrate understanding of the interpretation of statistical data, including: <ul style="list-style-type: none"> <li>- Confidence intervals</li> <li>- Confidence levels</li> <li>- Margin of error</li> </ul>	Nov. 5 – Nov. 23 (10 hours)
Ch. 6 – Systems of Linear Inequalities	FM 20.8 Demonstrate understanding of systems of linear inequalities in two variables.	Nov. 26 – Dec. 7 (12 hours)
Ch. 7 – Quadratic Functions and Equations	FM 20.9 Demonstrate an understanding of the	Dec. 10 – Dec. 21 (10 hours)

