

# GRE-2

## *Class Schedule*

	<b>Hour 1</b>	<b>Hour 2</b>	<b>Hour 3</b>	<b>Homework</b>
Week 1	Intro / Arithmetic lecture	Arithmetic lecture	Algebra lecture	Arithmetic
Week 2	Arithmetic Q&A	Algebra lecture	Algebra lecture	Algebra
Week 3	Algebra Q&A	Geometry lecture	Data lecture	Geometry
Week 4	Geometry Q&A	Data lecture	Data lecture	Data
Week 5	Data Q&A	Verbal lecture	Essay lecture	Essay, verbal
Week 6	Essay feedback and verbal teamwork	Exit diagnostic	Discuss exit diagnostic	Ace the GRE!

## *Topics*

### **GRE Overview**

- Math, especially QC
- Other sections
- Percentiles and expected improvement

### **Arithmetic**

- Equally spaced numbers, *aka* arithmetic sequences
- Prime factors
- Rules of exponents
- Simplifying roots

### **Algebra**

- Equation of line
- Factoring
- Systems of equations / inequalities
- Rate / mixture problems and weighted averages
- Absolute value / quadratic inequalities
- Function theory
- Telescoping sequence
- Quadratic formula
- Circles and parabolas

## **Geometry**

- Lines and angles
- Triangle inequality
- Polygon names and angles
- Types of triangles and quadrilaterals
- Rectangles: Long / skinny vs. square
- Box shapes: Surface area / volume
- The 3D Pythagorean Theorem
- 1, 2, and 3-dimensional scaling

## **Data**

- Probability and compound probability
- Counting principles
- The SD as a counting unit
- The normal distribution
- Boxplot, percentiles, quartiles, IQR

## **Verbal**

- Brief overview
- “Hard” problems
- Quasi-mathematical questions
- Strengthening or weakening arguments with alternative explanations

## **Essays**

- Brief overview
- Alternative explanations

## *GRE-2 Expected Improvement*

### **Math**

<i>Starting score</i>		<i>End score</i>	
<i>Raw score</i>	<i>Percentile</i>	<i>Raw score</i>	<i>Percentile</i>
150	41	157	69
155	61	161	81
160	78	164	89
165	91	167	95

### **Verbal**

<i>Starting score</i>		<i>End score</i>	
<i>Raw score</i>	<i>Percentile</i>	<i>Raw score</i>	<i>Percentile</i>
150	44	153	58
155	66	157	73
160	84	162	89
165	95	166	96