MAT 155P PreCalculus Mathematics Plus Exercises from Textbook
Please use the following table below as a guide.
(Updated 7/8/17)

Course Textbook, *Algebra and Trigonometry* from OpenStax, ISBN 1938168372, is free and open online.

Chapter 1 **Prerequisites**

Sections	Pages	Exercises
1.1	15 - 16	1- 59 ODD
1.2	29 - 30	1- 49 ODD, 53 - 57 ODD
1.3	39 - 40	1- 73 EOO **(EVERY OTHER ODD PROBLEM)**
1.4	48	1- 57 ODD
1.5	56 - 57	1- 59 ODD
1.6	64 - 65	1- 57 ODD
Review	70 - 71	1- 70 EOO

Chapter 2 **Equations and Inequalities**

Sections	Pages	Exercises
2.1	84 - 86	1- 47 ODD, 61
2.2	100 -101	1- 59 ODD
2.3	108 -110	1- 53 ODD
2.4	118	1- 55 ODD
2.5	129 -130	1- 57 ODD
2.6	141	13- 19, 20 – 26, 46 - 49
2.7	149- 150	1- 63 ODD MUST INCLUDE POLYNOMIAL AND RATIONAL INEQUALITIES WITH THIS SECTION.
Review	155 - 157	1- 69 ODD

Chapter 3 **Functions**

Sections	Pages	Exercises
3.1	176 - 179	1- 91 EOO
3.2	193 - 195	1- 61 ODD
3.3	206 - 208	1- 47 ODD
3.4	218 - 221	1- 97 EOO
3.5	243 - 246	1- 30 ODD
3.6	252 - 253	1- 41 ODD
3.7	264 - 266	1- 47 ODD
Review	272 - 276	1- 75 EOO

Chapter 4 **Linear Functions**

Sections	Pages	Exercises
4.1	304 - 308	1- 121 EOO
4.2	317 - 321	1- 57 ODD
4.3	OMIT	OMIT
Review	336 - 339	1- 29 ODD

Chapter 5   Polynomial and Rational Functions

Sections	Pages	Exercises
5.1	357 - 359	1- 75 EOO
5.2	372 - 374	1- 69 ODD
5.3	OMIT	OMIT
5.4	400 - 401	1- 73 EOO
5.5	412 - 413	1-21 ODD
5.6	431 - 434	1- 87 EOO
5.7	444 - 445	1- 65 ODD
5.8	451 - 452	1- 15 ODD, 25 – 33 ODD AND 51 – 57- ODD
Review	458 - 460	1- 47 ODD

Chapter 6   Exponential and Logarithmic Functions

Sections	Pages	Exercises
6.1	476 - 478	1- 67 ODD
6.2	488 - 490	1- 53 ODD
6.3	497 - 498	1- 65 ODD
6.4	513 - 515	1- 59 ODD
6.5	525	1 - 41 ODD
6.6	535 - 536	1- 81 EOO
6.7	549 - 551	1 - 53 ODD
6.8	OMIT	OMIT
Review	570 - 572	1 - 55 ODD

Chapter 7   The Unit Circle: Sine and Cosine Functions

Sections	Pages	Exercises
7.1	591 - 592	1- 73 EOO
7.2	601 - 603	1 - 55 ODD
7.3	617 - 619	1- 103 EOO
7.4	631 - 632	1- 75 EOO
Review	637 -638	1 - 49 ODD

Chapter 8   Periodic Functions

Sections	Pages	Exercises
8.1		Know how to graph the sine and cosine functions
8.2		Know how to graph the tangent, secant, cosecant and cotangent functions
8.3	686 - 687	8 – 23 ALL, 53 – 61 ODD
Review	690 - 691	28 – 30 ALL, 39, 40

Chapter 9   Trigonometric Identities and Equations

Sections	Pages	Exercises
9.1	704 - 705	1 - 41 ODD
9.2	718 - 719	1 - 55 ODD
9.3	730 - 731	1 - 63 ODD
9.4	737 - 738	1 - 61 ODD
9.5	750 - 751	1 - 105 EOO
Review	757- 758	1 - 49 ODD

Chapter 10   Further Applications of Trigonometry

Sections	Pages	Exercises
10.1	OMIT	OMIT
10.2	OMIT	OMIT
10.3	OMIT	OMIT
10.4	OMIT	OMIT
10.5	OMIT	OMIT
10.6	OMIT	OMIT
10.7	OMIT	OMIT
10.8	OMIT	OMIT
Review	OMIT	OMIT

Chapter 11   Systems of Equations and Inequalities

Sections	Pages	Exercises
11.1	OMIT	OMIT
11.2	OMIT	OMIT
11.3	OMIT	OMIT
11.4	OMIT	OMIT
11.5	OMIT	OMIT
11.6	OMIT	OMIT
11.7	OMIT	OMIT
11.8	OMIT	OMIT
Review	OMIT	OMIT

Chapter 12   Analytic Geometry

Sections	Pages	Exercises
12.1	OMIT	OMIT
12.2	OMIT	OMIT
12.3	OMIT	OMIT
12.4	OMIT	OMIT
12.5	OMIT	OMIT
Review	OMIT	OMIT

Chapter 13   Sequences, Probability and Counting Theory

Sections	Pages	Exercises
13.1	OMIT	OMIT
13.2	OMIT	OMIT
13.3	OMIT	OMIT
13.4	OMIT	OMIT
13.5	OMIT	OMIT
13.6	OMIT	OMIT
13.7	OMIT	OMIT
Review	OMIT	OMIT