## MAT 121 Intermediate Algebra Refresher Table of Content

## Chapter 3: Inequalities

3.1 Solve and Graph Inequalities 118
3.2 Compound Inequalities

124
3.3 Absolute Value Inequalities 128

Chapter 6: Factoring
6.1 Greatest Common Factor 212
6.2 Grouping

216
6.3 Trinomials where $a=1 \quad 221$
6.4 Trinomials where $a>1 \quad 226$
6.5 Factoring Special Products 229
6.6 Factoring Strategy 234
6.7 Solve by Factoring 237

Chapter 7: Rational Expressions
7.1 Reduce Rational Expressions 243
7.2 Multiply and Divide 248
7.3 Least Common Denominator 253
7.4 Add and Subtract 257
7.5 Complex Fractions 262
7.6 Proportions 268
7.7 Solving Rational Equations 274
7.8 Application: Dimensional Analysis 279

## Chapter 8: Radicals

8.1 Square Roots 288
8.2 Higher Roots 292
8.3 Adding Radicals 295
8.4 Multiply and Divide Radicals 298
8.5 Rationalize Denominators 303
8.6 Rational Exponents 310
8.7 Radicals of Mixed Index 314
8.8 Complex Numbers 318

Chapter 9: Quadratics
9.1 Solving with Radicals 326
9.2 Solving with Exponents 332
9.3 Complete the Square 337
9.4 Quadratic Formula 343
9.6 Quadratic in Form 352
9.10 Application: Revenue and Distance 373
9.11 Graphs of Quadratics 380

Chapter 10: Functions
10.1 Function Notation 386
10.2 Operations on Functions 392

