# ECSU SUMMARY DISCUSSION CHECKLIST

## Chapter 9: Quadratic and Other Polynomial Equations and Inequalities

*Experiencing Introductory and Intermediate Algebra Through Functions and Graphs*,
by Thomasson and Pesut 3rd edition, Prentice Hall

## Students Should Be Able To:

- ☐ Identify Polynomial Equations In One Variable
- ☐ Solve Polynomial Equations By Using The Zero Factor Property
- ☐ Solve Polynomial Equations By Factoring
- ☐ Simplify Square Root Expressions By Using The Product Rule For Square Roots
- ☐ Simplify Square Root Expressions By Using The Quotient Rule For Square Roots
- ☐ Identify Quadratic Equations In One Variable
- ☐ Solve Quadratic Equations In One Variable Algebraically By Using The Principle Of Square Roots
- ☐ Complete Perfect Square Trinomials
  **(For 101: Optional and For 101W: OMIT)**
- ☐ Solve Quadratic Equations By Completing The Square
  **(For 101: Optional and For 101W: OMIT)**
- ☐ Solve Quadratic Equations By Using The Quadratic Formula
- ☐ Define The Discriminant
- ☐ Solve Formulas For A Variable
- ☐ Determine The *x* Intercept Of A Quadratic Function
- ☐ Identify Quadratic Inequalities In One Variable
- ☐ Solve Quadratic Inequalities Algebraically