

## **ECSU SUMMARY DISCUSSION CHECKLIST**

### **Chapter 6: Polynomial Functions**

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

#### **Students Should Be Able To:**

- Identify Polynomials
- Identify Terms Of Polynomials
- Write Polynomials In One Variable In Descending Order
- Write Polynomials In One Variable In Ascending Order
- Determine The Degree Of Polynomials In One Variable
- Identify Polynomials In One Variable
- Identify Polynomials In Several Variables
- Determine The Degree Of Polynomials In Several Variables
- Evaluate Polynomials In One Variable
- Evaluate Polynomials In Several Variables
- Identify A Quadratic Function
- Describe The Graph Of A Quadratic Function
- Define A Vertex Of A Quadratic Function
- Define The Axis Of Symmetry Of A Quadratic Function
- Find The  $y$  Intercept
- Determine The Range

## ECSU SUMMARY DISCUSSION CHECKLIST CONTINUED

### Chapter 6: Polynomial Functions

#### Students Should Be Able To:

- Determine The Domain
- Find The Vertex Of A Quadratic Function Written In Standard Form
- Find The Axis Of Symmetry Of A Quadratic Function Written In Standard Form
- Find The  $y$  Intercept Of A Quadratic Function Written In Standard Form
- Find The Vertex Of A Quadratic Function Written In The Form  
 $y = a(x - h)^2 + k$
- Determine Translations Along The  $y$  Axis
- Determine Translations Along The  $x$  Axis