COURSE OUTLINE
Revision: Marjie Vittum-Jones, April 2008

DEPARTMENT: Academic Programs
CURRICULUM: Developmental Mathematics
COURSE TITLE: Algebra II
COURSE NUMBER: MATH 085

TYPE OF COURSE: College Preparatory
   Special Requirement Met: None

AREA(S) OF KNOWLEDGE: None

COURSE LENGTH: 1 quarter
CREDIT HOURS: 5

LECTURE HOURS: 55 (lecture, lab, online formats)
LAB HOURS: 0
CLASS SIZE: 25 (for lab or online) or 30 (for lecture)

PREREQUISITES: Math 084 with a 2.0 or better or appropriate placement score.

COURSE DESCRIPTION:
Math 085 is a continuation of Math 084. It covers systems of equations, rational expressions and equations, radical expressions and equations, quadratic equations and graphs.

STUDENT LEARNING OUTCOMES ADDRESSED:
1. Communication – Read and listen actively to learn and communicate.
STUDENT LEARNING OUTCOMES CONTINUED:

2. Computation – Use arithmetic and other basic mathematical operations as required by program of study. Apply quantitative skills for personal, academic, and career purposes. Identify, interpret and utilize higher level mathematical and cognitive skills (for those students who choose to move beyond the minimum requirements).


4. Personal responsibility – Be motivated and able to continue learning and adapt to change. Value one’s own skills, abilities, ideas and art. Take pride in one’s work. Be aware of civic and environmental issues.

5. Technology – Select and use appropriate technological tools for personal, academic and career tasks.

GENERAL COURSE OBJECTIVES:

The student will do most or all of the following:

1. Demonstrate success on evaluations over the topics studied.

2. Work to build a foundation of algebra skills for subsequent mathematical classes.

3. Develop skills in algebra though symbolic manipulation and applications.

4. Develop regular attendance and time management/organization skills.

TOPICAL OUTLINE: Topics likely to be completed include the following:

I. Polynomials and factoring

II. Rational expressions and equations

III. Systems of equations and problem solving

IV. Radical expressions, equations and problem solving

V. Solving quadratic equations

The sequence of the topics for Math 084/085 may vary as determined by the math department but all the topics listed in the District College Catalog will be covered in the full two quarter sequence.

APPROX HOURS: 55

REVISED BY: M. Vittum-Jones and O. Shatunova
DATE: April 2008
### MATH 085 Algebra II
April 2008

<table>
<thead>
<tr>
<th>SLO #</th>
<th>Included in Course Objective Number</th>
<th>SSCC Student Learning Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLO 1.1</td>
<td>1 - 4</td>
<td>Communication - Read and listen actively</td>
</tr>
<tr>
<td>SLO 1.2</td>
<td></td>
<td>Communication - Speak and write effectively</td>
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<tr>
<td>SLO 2.1</td>
<td>1 - 4</td>
<td>Computation - Use mathematical operations</td>
</tr>
<tr>
<td>SLO 2.2</td>
<td>1 - 4</td>
<td>Computation - Apply quantitative skills</td>
</tr>
<tr>
<td>SLO 2.3</td>
<td>1 - 4</td>
<td>Computation - Identify, interpret, and utilize higher level mathematical and cognitive skills</td>
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<tr>
<td>SLO 3.1</td>
<td></td>
<td>Human Relations - Use social interactive skills to work in groups effectively</td>
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<tr>
<td>SLO 3.2</td>
<td></td>
<td>Human Relations - Recognize the diversity of cultural influences and values</td>
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<tr>
<td>SLO 4.1</td>
<td>1 - 4</td>
<td>Critical Thinking and Problem Solving -</td>
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<tr>
<td>SLO 5.1</td>
<td>1 - 4</td>
<td>Technology - Select and use appropriate technological tools</td>
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<tr>
<td>SLO 6.1</td>
<td>1, 4</td>
<td>Personal Responsibility - Be motivated and able to continue learning and adapt to change</td>
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<tr>
<td>SLO 6.2</td>
<td>1, 4</td>
<td>Personal Responsibility - Value one's own skills, abilities, ideas and art</td>
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<tr>
<td>SLO 6.3</td>
<td>1, 4</td>
<td>Personal Responsibility - Take pride in one's work</td>
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<tr>
<td>SLO 6.4</td>
<td></td>
<td>Personal Responsibility - Manage personal health and safety</td>
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<tr>
<td>SLO 6.5</td>
<td>1 - 4</td>
<td>Personal Responsibility - Be aware of civic and environmental issues</td>
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<tr>
<td>SLO 7.1</td>
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<td>Information Literacy - Access and evaluate information</td>
</tr>
<tr>
<td>SLO 7.2</td>
<td></td>
<td>Information Literacy - Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society</td>
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</tbody>
</table>

PREPARED BY: M. Vittum-Jones and O. Shatunova
DATE: April 2008

MATH 084