



Central  
North  
South  
SVI

# MATH095 - Introductory & Intermediate Algebra II

Document Type: Master Course Outline Supplemental

Proposal Type: Revision

Requester(s): John Toutonghi

College: South

Origination Approved: 05/30/2014 - 3:43 PM

## BASIC INFORMATION

**Requester(s):** John Toutonghi

**College:** South Seattle Community College

**Division/Dept:** Academic Programs

**Dean:** Gayla Shoemake

**Peer Reviewer(s):** Kim Llewelyn  
Heidi Lyman

## COLLEGE SUPPLEMENTAL

**Proposed Quarter of Implementation:** NA  
Summer 2014

Request Provisional Exception

**Class Capacity:** 30

**Modes of Delivery:** (Check all that apply)

Fully On Campus

Fully Online

Hybrid

Other Explanation:

### Class Schedule Description:

Review factoring and the use of factoring to solve equations. Introduction to functions, functional notation & operations on functions; solve quadratic equations; simplify & solve rational expressions & equations; simplify radical expressions & rational exponents and solve radical equations; and analyze exponential and logarithmic functions algebraically and graphically. Prereq: Math 094 with a 2.0 or higher.

### Student Learning Outcomes:

#### Computation

Use arithmetic and other basic mathematical operations as required by program of study

Apply quantitative skills for academic and career purposes

#### Human Relations

Use social interactive skills to work in groups effectively

**Critical Thinking and Problem-Solving**

Think critically in evaluating information, solving problems, and making decisions

**Technology**

Select and use appropriate technological tools for academic and career tasks

**Personal Responsibility**

Uphold the highest standard of academic honesty and integrity

Respect the rights of others in the classroom, online and in all other school activities

Attend class regularly, complete assignments on time and effectively participate in classroom and online discussions, group work and other class-related projects and activities

**Program Outcomes:**

<b>SLO #</b>	<b>Included in Course Objective Number</b>	<b>SSCC Student Learning Outcomes</b>
SLO 1.1		Communication - Read and listen actively to learn and communicate.
SLO 1.2		Communication - Speak and write effectively for academic and career purposes.
SLO 2.1	1-5	Computation - Use arithmetic and other basic mathematical operations as required by program of study.
SLO 2.2	1-5	Computation - Apply quantitative skills for academic and career purposes.
SLO 3.1	6-7	Human Relations - Use social skills to work in groups effectively.
SLO 3.2		Human Relations – Have knowledge of the diverse cultures represented in our multicultural society.
SLO 4.1	1-7	Critical Thinking—Think critically in evaluating information, solving problems, and making decisions.
SLO 5.1	1-7	Technology - Select and use appropriate technological tools for academic and career tasks.
SLO 6.1	1-7	Personal Responsibility – Uphold the highest standards of academic honesty and integrity.
SLO 6.2	6-7	Personal Responsibility – Respect the rights of others in the classroom, online, and in all other school activities.
SLO 6.3	6-7	Personal Responsibility – Attend class regularly, complete assignments on time, and effectively participate in classroom and online discussions, group work, and other class-related projects and activities.
SLO		Personal Responsibility – Abide by appropriate safety rules in

6.4		laboratories, shops, and classrooms.
SLO 7.1		Information Literacy—Independently access, evaluate, and select information from a variety of appropriate sources.
SLO 7.2		Information Literacy – Have knowledge about legal and ethical issues related to the use of information
SLO 7.3		Information Literacy - Use information effectively and ethically for a specific purpose.

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**Course Outcomes / Objectives:**

Upon completion of this course, a student should be able to:

1. Perform all operations on rational expressions and solve rational equations.
2. Simplify rational exponents & roots, and solve radical equations.
3. Solve and graph quadratic equations.
4. Utilize functional notation, both algebraically and graphically.
5. Analyze exponential and logarithmic functions both algebraically and graphically.
6. Work effectively in group environments with their peers.
7. Accurately communicate mathematical ideas, both verbally and in writing.

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**Explain the student demand for the course and potential enrollment:**

Demand for this course is increasing, with growth expected to continue as we offer fewer sections of the Math 084/085 Introductory Algebra sequence.

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**Explain why this course is being revised:**

There are three reasons for the revision of this course:

1. There is a re-alignment of content in the 094/095 sequence to provide a better balance of topics in each course. Functions are being taken out of 094 and added to 095, while Factoring is being taken out of 095 and added to 094.
2. Student Learning Outcomes (SLO's) have been revised, in accordance with new campus-wide SLO's.
3. On-line and Hybrid offerings are needed to meet increased demand and non-traditional student scheduling needs.

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**What challenges, if any, do you foresee in offering this course:**

None.

**This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.**

Faculty involved in originating this program:

John Toutonghi  
Print Name

*John Toutonghi*  
Signature

5/27/2014  
Date

Dean:

Mark D Baumann (Admin)  
Print Name

*Mark D Baumann*  
Signature

3/11/2014  
Date

**Results of SSCC Curriculum Coordinating Council Findings**

**Participating Faculty Response and Remarks**

- Recommended for approval  
 Not recommended for approval

Chairman, Curriculum Coordinating Council:

Diane Schmidt  
Print Name

*Diane Schmidt*  
Signature

5/28/2014  
Date

Vice President for Instruction:

Donna Miller-Parker  
Print Name

*Donna Miller-Parker*  
Signature

5/30/2014  
Date