

Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information**Department:** Skills Development**Submitter**

First Name: Lisa

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Course Prefix and Number: ASE - 071A**# Credits:** .5**Contact hours**

Lecture (# of hours):

Lec/lab (# of hours): 60

Lab (# of hours):

Total course hours: 60

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Algebra IA**Course Description:**

Algebra IA explores the relationship between mathematical quantities, reasoning with equations and inequalities, graphing, functions and mathematical modeling. .5 high school credit.

Type of Course: Developmental Education

Can this course be repeated for credit in a degree?

No

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

Yes

Recommendations: None

Requirements: Instructor consent

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

Pass/No Pass Only

Audit: Yes

When do you plan to offer this course?

- ✓ **Summer**
- ✓ **Fall**
- ✓ **Winter**
- ✓ **Spring**

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. perform addition, subtraction, multiplication, and division with various expressions;
2. find the slope and intercepts of a linear equation using varied strategies,

3. graph a system of linear equations and inequalities,
4. use patterns and sequences to predict outcomes,
5. find the domain and range of a function,
6. relate functions to equations, tables and graphs;
7. express real world scenarios using functions,
8. solve problems using functions,
8. transform and translate functions,
9. simplify rational exponents.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Isolating the variable using addition, subtraction, multiplication, and division.
2. Graphing linear equations and inequalities.
3. Functions.
4. Applying algebraic reasoning in real world problems.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Next available term after approval

:
