

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 - 012

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: Applied Math II

Course Description:

Continues operations of arithmetic, basic algebra and geometry. Introduces polynomial expressions, linear equations and inequalities, graphing, and the coordinate plane. The use of technology is integrated throughout the course. A scientific calculator is required for the course. .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. use models for solving problems (Venn Diagrams, geometric shapes, charts);
2. display and interpret information and statistics visually using the coordinate plane,
3. develop and solve linear equations and inequities that represent real world problems,
4. illustrate knowledge to solve equations using multiplication properties, identify unknown in real situations involving multiplication, find and illustrate surface area of rectangular solids; find and illustrate area of triangles and trapezoids;
5. convert decimals to fractions, estimate square roots of numbers and recognize their relation to geometric squares, recognize use the Pythagorean Theorem, illustrate knowledge of circles' area and circumference;
6. solve linear systems using multiple approaches.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Extension of operations with fractions, decimals, percentages, measures of central tendency, and probability.
2. Visual representations.
3. Linear equations.
4. Linear inequalities.
5. Coordinate plane.
6. Real world application.
7. Problem solving using multiple strategies.

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

:
