

Clackamas Community College
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Section #1 General Course Information

Department:Mathematics

Submitter

First Name: Lisa

Last Name: Nielson

Phone: 3401

Email: lisan

Course Prefix and Number:MTH - 020A

Credits:1

Contact hours

Lecture (# of hours): 11

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 11

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:Proportions and Percentages

Course Description:

This course will advance concepts learned in MTH-010D, Rates and Metric Measurements, relating to ratios, rates, and proportions as they apply to conversions, fractions, and percentages. Convert fractions, decimals, and percents into one another.

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?

No

Will this class use library resources?

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?

✓ Not every term

Will this course appear in the college catalog?

No

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. use proportions to solve two step applications,
 2. employ ratios to solve single step unit conversion,
 3. convert units using proportions,
 4. conceptualize percentages,
 5. identify equivalent fractions,
 6. convert percents, decimals, fractions to solve percent problems;
 7. solve percent applications using proportions,
 8. compute the rate, base, and amount using proportions;
 9. solve two step problems finding the rate, base, and/or amount;
 10. use a standard calculator to check work.
-

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Use proportions to solve two step applications.
2. Employ ratios to solve single step unit conversion.
3. Convert units using proportions.
4. Conceptualize percentages.
5. Identify equivalent fractions.
6. Convert percents to decimals and fractions.
7. Convert decimals to percents and fractions.
8. Convert fractions to percents and decimals.
9. Solve percent applications using proportions.
10. Compute the rate, base, and amount using proportions.
11. Solve two step problems finding the rate, base, and/or amount.

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

:
