

**Clackamas Community College**  
Online Course/Outline Submission System

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### Section #1 General Course Information

**Department:** Engineering Science

**Submitter**

First Name: Matthew

Last Name: LaForce

Phone: 3148

Email: laforce

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**Course Prefix and Number:** MTH - 082E

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**# 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.

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**Course Title:** Math for High Purity Water

**Course Description:**

Basic math for high purity water concepts. Measurement accuracy, rounding rules & errors, significant figures, scientific notation, metric prefixes, simple statistics, average & standard deviation of a population.

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**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?

**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:

A-F or Pass/No Pass

**Audit: Yes**

When do you plan to offer this course?

**✓ Not every year**

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. demonstrate measurement accuracy,
2. explain rounding rules and errors,
3. identify significant figures,
4. use scientific notation,
5. define metric prefixes,
6. explain simple statistics including average and standard deviation of a population.

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***This course does not include assessable General Education outcomes.***

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Major Topic Outline:

1. Measurement accuracy.
2. Rounding Rules and Errors.
3. Significant Figures.
4. Scientific Notation.
5. Metric Prefixes.
6. Simple Statistics.
  - a. Average.
  - b. Standard Deviation of a Population.

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

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

Percent of course: 0%

First term to be offered:

**Next available term after approval**

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