Course Edit Proposal

For delivery to the Oregon Coast Community College Instructional Leadership Team (ILT).

Course information can be found in the online Oregon Coast Community College catalog, and the full Course Content and Outcomes Guides (CCOGs) can be requested from the Department of Academics and Workforce. Substantial changes may require submission of the New Course Proposal form.

Course to be changed:

Course Number: *Math 98*

Course Title: *Math Literacy II*

Is this course currently a pre- or co-requisite for another course: *Yes*

If yes, list all relevant courses: *Math 105, 243, Biology 112, Geology 201, 202, 203, Physics 101, 102, 103*

What programs/certificates include this course, if any: *None*

Does this course require a special additional fee: *No*

Does this course satisfy a General Education or Cultural Literacy requirement (list): *No*

Requested Change:

- ☐ Course number
- ☐ Credit Hours
- ■ Pre-Requisites
- ■ Description
- ☐ Assessment Strategies
- ☐ Gen Ed Requirement
- ☐ Other
- ■ Course title
- ☐ Contact Hours
- ☐ Co-Requisites
- ■ Outcomes
- ☐ Grading Option
- ☐ Fees

Detail your changes:

New Title
Math Literacy

New Prerequisite
Eliminate Math 58 prerequisite so there is no prerequisite.

Old Description
Introduces normal distribution and regression/curve fitting. Covers modeling, graphing and solving of linear and quadratic equations. Introduces problem solving with linear systems of equations. Explores how to clearly communicate sophisticated arguments supported by quantitative evidence using spreadsheets, words, tables, graphs, and mathematical equations, as appropriate. Supports collaborative learning through class group interaction. TI-83 or TI-84 calculator required.

New Description
his is a survey course in mathematics for students in the liberal arts and other non-science majors. Introduces concepts from arithmetic, algebra, and introductory statistics. Explores how to clearly communicate sophisticated arguments supported by quantitative evidence using spreadsheets, words, tables, graphs, and mathematical equations, as appropriate. Supports collaborative learning through class group interaction

Current Outcomes
1. Use a graphing calculator and an Excel style spreadsheet system to perform calculations and create graphical displays.
2. Make reasonable conclusions based upon data or situations modeled by a normal distribution.
3. Construct, model and problem solve with linear and non-linear functions.
4. Apply an understanding of functions and function notation.
5. Recognize the difference between direct and indirect variation.

New Outcomes
1. Use and integrate several different types of technology to explore and analyze data to solve problems.
2. Make reasonable conclusions based upon data or situations modeled by a normal distribution.
3. Identify, model and problem solve with linear and non-linear equations.
4. Calculate probability and percentages for both contextual and graphical applications.
5. Compute and interpret standard deviation, measures of central tendency, weighted mean, and expected value.
6. Evaluate simple and compound interest formulas for various scenarios.

What is the need and impact of these course changes:

We are attempting to shorten the non-STEM math pathway. To do that, we are taking the lead from other community colleges here in Oregon and condensing math 58 and 98 into one class.

Academic year and term course change intended to go into effect:

Year: *2021* ☐ Fall ■ Winter ☐ Spring ☐ Summer

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Department: *Math*

Date of Submission: *10/21/21*

See curriculum webpage for process flowchart, deadlines calendar, and General Education Philosophy Statement and definitions. Any additional questions can be sent to officeofinstruction@oregoncoastcc.org.