

**Umpqua Community College
Community & Workforce Training
Course Outline – Math for Operators Level III and IV**

Course Description: This class will provide operators with the basic math and algebra skills to use the formulas required to complete the operator grade III & IV exams.

Course Prerequisites:

Level III – Level II must be completed prior to taking Level III

Level IV – Level III must be completed prior to taking Level IV

Course Objectives/Outcomes:

1. Students will demonstrate understanding of basic math and algebra skills including fractions, decimals, percentages, significant figures, rounding, proportions, ratios, conversions, and manipulation of equations
2. Students will demonstrate understanding of water quality industry specific math including area/volume, flow, pressure, detention time, pounds formula, removal/reductions, and horsepower/electricity.
3. Students will be prepared for the Math Section of the Level III and IV Wastewater System Operator Certification exam.

Training Goal: This course will focus on preparing students for the math sections of the Water & Wastewater Certification Exams.