Arvada West’s WQM CTE Pathway

Chris Madsen
• Began 7 years ago
• Consists of two concurrent enrollment courses with Red Rocks Community College (RCCC)
  ○ Environmental Systems: Water
    ■ Students receive RRCC credit for the Introduction to Water Quality (WQM 1000) and Basic Water Quality Analyses (WQM1019) courses
      • 1000 Competencies
      • 1019 Competencies
  ○ Advanced studies in Water Quality
    ■ Students receive RRCC credit for Bio/Bacteriological Quality Analyses (WQM 2016) and ST: Water Industry Professional Exploration (WQM 1075)
      • 2016 Competencies
Working with Industry

- Advisory Board
  - Includes members of Denver Water, Metro Water Recovery, City of Arvada Water Quality Department, North Table Mountain Water and Consolidated Mutual Water Company

- Industry Lead Projects
  - Data Analysis
  - Lead & Copper Rule Graphics
  - Tour Presentation
  - Don’t Flush Flush Wipes Social Media Materials
  - Train Bill Social Media Materials
Working with Industry Success Stories

- Current Candidates: Downstream Development Program (Job Shadowing Program)
  - Students shadow 3 different locations with industry partners in the fall
    - 57 Shadows
    - 342 hours of work-based learning for the students
  - Students then pick their favorite shadow location and complete another 3-4 shadows in that location in spring
    - ~80 Shadows
    - ~500 hours of work-based learning for the students
Working with Industry Success Stories

- Advisory board member Ceila Rethamel is a board of Colorado Certified Water Professionals (CCWP)
  - During one of the advisory board meetings the topic of students earning their D certificates (water and wastewater) came up
    - At the time the requirements required an applicant to have at high school diploma or GED
    - Disqualified my students from sitting for the certification
    - I spoke to the board about this issue and they amended Regulation No. 100 so students could sit for the exam