

Course Outcomes: Math 090

Consumer Mathematics

The following are working course outcomes. These outcomes will be reviewed by the NWIC Curriculum Committee during the curricular review process in 2017 with the intent of creating and approving course outcomes.

At the completion of this course students will be able to:

- Figure hourly, daily, weekly, monthly and annual wages
- Figure time worked, overtime, wages plus overtime, tips and piecework
- Figure rounding money, percents, decimals, commissions, salary plus commissions, gross pay and net pay
- Express prices, read prices, add prices, and compute change
- Use store coupons, read expiration dates, find the cost of one, use the word “per”, figure unit price, and compare unit prices
- Buy “ready-to-wear”, figure sale prices, and percent saved
- Figure discounts and buying from a catalog
- Buy to make your own clothes
- Find the cost of fabric
- Use a charge account
- Use a layaway plan
- Understand how to rent a home
- Understand how to buy a home
- Compute a down payment
- Understand how to pay a mortgage
- Understand how terms of mortgage differ
- Read utility meters
- Determine consumption of utilities
- Understand telephone, gas and electric bills
- Understand mortgage and homeowners’ insurance
- Understand how to buy a new or used car

- Understand how to finance a car
- Understand automobile insurance
- Read odometer
- Compute average miles driven per year
- Compute number of miles traveled
- Compute the range of a car
- Compute the amount of fuel needed
- Compute average speed
- Find travel time
- Compute gasoline purchase prices
- Compute the cost of repairs
- Count calories
- Understand ratios and proportions
- Find calories with proportion
- Determine recommended daily allowances.
- Understand the relationship of calories and weight control
- Change recipe yields
- Understand how to time food preparation
- Understand how to buy furniture and appliances
- Understand a 90 day purchase plan
- Figure perimeter and area
- Understand how to determine paint supply for painting a room
- Understand how to determine wallpaper supply for wallpapering a room
- Understand how to determine floor covering supply for covering a floor
- Compute amount of molding needed
- Determine the amount of wall-to-wall carpeting needed
- Compute the cost of additions
- Compute the cost of insulation
- Compute the cost of feeding and seeding lawns
- Compute the cost of fencing a yard
- Read a map
- Estimate distances
- Read a train schedule
- Compute train fares
- Compute the cost of hotel stays

- Compute and compare the costs of package travel plans
- Exchange currency
- Rent a car
- Compute parking expenses
- Figure time zones
- Travel by air
- Find average income
- Prepare a budget
- Adjust a budget
- Use circle graphs
- Balance a budget
- Figure simple interest
- Figure compound interest
- Figure how to double your money
- Open and maintain a checking account
- Understand stock market mathematics
- Evaluate profits and losses
- Understand earning and computing dividends
- Read and write large numbers
- Understand the federal budget
- Compute income tax
- Read a tax table
- Use a tax schedule
- Compute refund or balance due
- Arrange decimals smallest to largest and largest to smallest
- Compute property tax
- Compute “effective tax rate”
- Compute sales tax
- Find the square root of a number
- Use electrician formulas
- Arrange tool sizes from smallest to largest
- Measure line segments
- Compute scale length
- determine gear teeth number and rpm requirements