

# ALH A007N: COMPUTATIONAL SKILLS FOR CONSUMER AND HEALTH SCIENCES III NONCREDIT

Item	Value
Curriculum Committee Approval Date	12/02/2020
Top Code	120100 - Health Occupations, General
Units	0 Total Units
Hours	4.5-9 Total Hours (Lecture Hours 4.5-9)
Total Outside of Class Hours	0
Course Credit Status	Noncredit (N)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	Yes; Repeat Limit 99
Grading Policy	P/NP/SP Non-Credit (D)

## Course Description

This course covers measurement fundamentals and scientific notation in the allied health sciences to allow for performance of specific job functions. Scientific notation is a method of recording extremely large and small values. As such, the allied health professional will need to be able to perform addition, subtraction, multiplication, and division of values using scientific notation. Converting between measurement systems. Centigrade and Fahrenheit;  $C = (F-32)/1.8$ , centimeter to inches;  $cm = inch/2.54$ , pounds to kilograms;  $kg = lb/2.205$  to name a few. NOT DEGREE APPLICABLE. Not Transferable.

## Course Level Student Learning Outcome(s)

1. Students will demonstrate the ability to solve measurement system problems in consumer and health sciences using scientific notation and significant digits.

## Course Objectives

- 1. Solve problems using scientific notation and various measurement systems for allied health professions applications.

## Lecture Content

1. Scientific notation is a method of recording extremely large and small values. As such, the allied health professional will need to be able to addition, subtraction, multiplication, and division of values using scientific notation. Students will also need to be able to determine necessity of significant digits in their solutions. 2. Converting between measurement systems. Centigrade and Fahrenheit;  $C = (F-32)/1.8$ , centimeter to inches;  $cm = inch/2.54$ , pounds to kilograms;  $kg = lb/2.205$  to name a few.

## Method(s) of Instruction

- Enhanced NC Lect (NC1)
- Live Online Enhanced NC Lect (NC9)

## Instructional Techniques

Lecture with written assignments and short quizzes to determine student progress.

## Writing Assignments

Written assignments and applied examples.

## Out-of-class Assignments

None

## Demonstration of Critical Thinking

Develop the ability to solve problems using scientific notation and significant digits.

## Required Writing, Problem Solving, Skills Demonstration

Solve presented problems through the acquired skills and apply said skills to real-life scenarios.

## Eligible Disciplines

Cardiovascular technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Child development/early childhood education: Masters degree in child development, early childhood education, human development, home economics/family and consumer studies with a specialization in child development/early childhood education, or educational psychology with a specialization in child development/early childhood education OR bachelors degree in any of the above AND masters degree in social work, educational supervision, elementary education, special education, psychology, bilingual/bicultural education, life management/home economics, family life studies, or family and consumer studies OR the equivalent. Masters degree required. Culinary arts/food technology (food service, meat cutting, baking, waiter/w...: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Dental technology (dental assisting, dental hygiene): Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Diagnostic medical technology-diagnostic medical sonography, neurodiagnosti...: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Dietetic technician: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Family and consumer and studies/home economics: Masters degree in family and consumer studies, life management/home economics, or home economics education OR bachelors degree in any of the above AND masters degree in child development, early childhood education, human development, gerontology, fashion, clothing and textiles, housing/interior design, foods/nutrition, or dietetics and food administration OR the equivalent. Masters degree required. Fashion and related technologies (merchandising, design, production): Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Health care ancillaries (medical assisting, hospice worker, home care aide...: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Kinesiology: Masters degree in kinesiology, physical education, exercise science, education with an emphasis in physical education, kinesiology, physiology of exercise, or adaptive

physical education OR Bachelors degree in any of the above AND Masters degree in any life science, dance physiology, health education, recreation administration or physical therapy OR the equivalent. Nutritional science/dietetics: Masters degree in nutrition, dietetics, or dietetics and food administration OR bachelors degree in any of the above AND masters degree in chemistry, public health, or family and consumer studies/home economics OR the equivalent. (Note: A bachelors degree in nutrition, dietetics, or dietetics and food administration, and certification as a registered dietician, is an alternative qualification for this discipline.) Masters degree required. Title 5, section 53410.1 Radiological technology: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Respiratory technician: Any bachelors degree and two years of professional experience, or any associate degree and six years of professional experience. Speech language pathology: Masters degree in speech pathology, speech language pathology, speech language and hearing sciences, communicative disorders, communicative disorders and sciences, communication sciences and disorders, or education with a concentration in speech pathology, OR the equivalent. Masters degree required.