|  |
| --- |
| Course Information: |
| College:  | Lakeshore Technical College |
| Course Title:  | Healthcare Stats & Research |
| Course Number:  | 10-530-177 |

**Course Competencies**

Competencies are what learners will be able to do as a result of the learning experience. In this course, the competencies that you must demonstrate are:

|  |  |
| --- | --- |
| **#** | **Course Competency:** |
| 1: | Report types of health statistics and their applications |
| 2: | Calculate utilization related statistics |
| 3: | Calculate morbidity and mortality rates and percentages |
| 4: | Examine research principles |
| 5: | Present statistical results |
| 6: | Perform functions related to vital statistics and mandatory state reporting |
| 7: | Perform disease/procedure registry functions |

**META DATA TAGS:** Healthcare Stats, Healthcare Research, Healthcare, Stats, Research, Healthcare Information Management, Healthcare Management

**Course Schedule**

| **Week/LP** | **Learning Plan** | **Targeted Competencies** | **Learning Activities** | **Assessment Activities** |
| --- | --- | --- | --- | --- |
| LP 1 | Statistical Terminology and Healthcare Data | * Report types of health statistics and their applications.
 | -Read chapter 1-Complete Self-tests-Complete Ch. 1 test on page 20.-Complete Cengage Brain flashcard activity. | * Syllabus and Course Schedule Quiz (not graded)
* Quiz Chapter 1
 |
| LP 2 | Frequency Distributions and Tables | * Present statistical results
 | -Prior to class read chapter 2-Complete Self-tests-Complete Ch. 2 test on page 42.-Complete Cengage Brain flashcard activity. | * Complete and Submit Textbook Exercises 2.2, 2.4, 2.6, & 2.8.
* Complete Quiz on Chapter 2.
 |
| LP 3 | Health Care Overview and Patient Data Collection | * Report types of health statistics and their applications
* Perform disease/procedure registry functions
 | -Read chapter 3.-Complete Self-tests.-Complete Ch. 3 test on page 62.-Complete Cengage Brain flashcard activity. | * Complete and Submit Textbook Exercises 3.2, 3.4, 3.6, 3.8, & 3.10.
* Complete Quiz on Chapter 3.
 |
| LP 4 | Mathematical Review | * Calculate utilization related statistics
 | -Read chapter 4.-Complete Self-tests.-Complete Ch. 4 test on page 82. | * Complete and Submit Textbook Exercises 4.2, 4.4, 4.6, & 4.8.
* Complete Quiz on Chapter 4.
 |
| LP 5 | Census | * Calculate utilization related statistics
 | -Read chapter 5.-Complete Self-tests.-Complete Ch. 5 test on page 101.-Complete Cengage Brain flashcard activity. | * Complete Quiz on Chapter 5.
* Complete and Submit Textbook Exercises 5.2, 5.4, & 5.6.
 |
| LP 6  | Percentage of Occupancy / Length of Stay | * Calculate utilization related statistics
 | -Read chapters 6 & 7.-Complete Ch. 6 & 7 self-tests.-Complete Ch. 6 test on page 119 and Ch. 7 test on page 135.-Complete Cengage Brain flashcard activities. | * Complete and Submit Textbook Exercises 6.2, 6.4, 6.6, 6.8, 6.10, 6.12, 6.14, 6.16, & 6.18.
* Complete Quiz on Chapter 6.
* Complete Midterm Exam.
 |
| LP 7 | Hospital Mortality Rates | * Calculate morbidity and mortality rates and percentages
 | -Read chapter 8.-Complete Self-tests.-Complete Ch. 8 test on page 150.-Cengage Brain flashcard activity. | * COMPLETE and Submit Textbook Exercises 7.2, 7.4, 7.6, 7.8, 7.10 & 7.12.
* Complete Quiz on Chapter 7.
 |
| LP 8 | Obstetrical-Related Rates | * Calculate morbidity and mortality rates and percentages
 | -Read chapter 9.-Complete Self-tests.-Complete Ch. 9 test on page 166.-Cengage Brain flashcard activity. | * Complete Textbook exercises 8.2, 8.4, 8.6, 8.8, 8.10, 8.12 & 8.14.
* Complete Quiz on Chapter 8.
 |
| LP 9 | Autopsy / Miscellaneous Rates | * Calculate morbidity and mortality rates and percentages
 | -Read chapters 10 & 11.-Complete Self-tests for both chapters.-Complete Ch. 10 test on pg. 183 and Ch. 11 test on pg. 197.-Cengage Brain flashcard activities. | * Complete Textbook Exercises 9.2, 9.4, 9.6, 9.8, 9.10 & 9.12.
* Complete Quiz on Chapter 9.
 |
| LP 10 | Vital Statistics Data/Rates | * Perform functions related to vital statistics and mandatory state reporting
 | -Read chapter 12.-Complete Self-tests.-Complete Ch. 12 test on page 218.-Complete Cengage Brain flashcard activity. | * Complete Quiz on Chapters 10.
* Complete Textbook Exercises 10.2 & 10.4.
 |
| LP 11 | Measures of Central Tendency and Dispersion | * Present statistical results
 | -Read chapter 13.-Complete Self-tests.-Complete Ch. 13 test on page 243.-Complete Cengage Brain flashcard activity. | * Complete Quiz on Chapters 11.
* Complete Textbook Exercises 11.2 & 11.4, 11.6.
 |
| LP 12 | Graphic Representation | * Present statistical results
 | -Read chapter 14.-Complete Self-tests.-Complete Ch. 14 test on page 269.-Cengage Brain flashcard activity. | * Complete Textbook Exercises 12.2.
* Complete Quiz on Chapter 12.
 |
| LP 13 | Fundamentals of Research | * Examine research principles
 | -Read chapter 15.-Complete self-tests-Complete Ch. 15 test on page 292.-Cengage Brain flashcard activity.  | * Complete Quiz on Chapter 13.
* Complete and Submit Textbook Exercise 13.2.
* Complete Comprehensive Exam.
 |



Except where otherwise noted, this work by [Lakeshore Technical College](file:///H%3A%5CLakeshore.htm), [Wisconsin Technical College System INTERFACE Consortium](http://advancewisconsin.org/advance-wisconsin/it/) is licensed under [CC BY 4.0](http://creativecommons.org/licenses/by/4.0).

Third Party marks and brands are the property of their respective holders. Please respect the copyright and terms of use on any webpage links that may be included in this document.

This workforce product was funded by a grant awarded by the U.S. Department of Labor’s Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership. This is an equal opportunity program. Assistive technologies are available upon request and include Voice/TTY (771 or 800-947-6644).