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| 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:

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| **#** | **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** |
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| 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. |

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