NORTHEASTERN TECHNICAL COLLEGE
COURSE OUTLINE

<table>
<thead>
<tr>
<th>COURSE:</th>
<th>PREFIX:</th>
<th>NO:</th>
<th>EFFECTIVE DATE</th>
<th>NEXT REVIEW DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHS</td>
<td>107</td>
<td></td>
<td>Spring 2015</td>
<td>Spring 2016</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TITLE:</th>
<th>CREDITS</th>
<th>CONTACTS</th>
</tr>
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<tbody>
<tr>
<td>Clinical Computations</td>
<td>2</td>
<td>2 0 2</td>
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PREREQUISITES: PNR 110

DESCRIPTION: This course is a study of the principles and applications of computations used in the clinical setting.

TEXTBOOK(S) OR ALTERNATIVE: Pickar, G., Dosage Calculations, 9th ED., Delmar, New York. 2013

MATERIALS (specifying those to be purchased by student):

COLLATERAL READING:

CLASS MANAGEMENT ACTIVITIES (Attendance, tardies, testing, etc.):

Academic dishonesty: NETC honors the State Technical Student Code with regard to Academic Dishonesty. Students should read the NETC Course Catalog. A copy of the Student Code is available at www.netc.edu

Attendance: The student is responsible for material covered in any class or lab. A student may miss a maximum of up to 10% of scheduled class hours. It is strongly advised that students attend all classes.

Tardy Policy: Three tardies will equal one absence. A student will be considered tardy if he/she comes into the classroom after the roll has been called.

Statement on Written Assignments: The instructor reserves the right to refuse any paper, which is messy or unreadable or appears to be copied. Incorrect grammar and spelling errors will be noted. Papers will be graded on the basis of content, organization, grammar, and neatness.

Classroom Etiquette: An integral part of an education is developing a sense of integrity and responsibility, not only toward the instructor, but also toward others. In the classroom, as on the job or in your home, exhibiting appropriate behavior reflects on your maturity. Arriving late to class, being unprepared, inappropriate talking while class is in session, etc. negatively reflects on you and your fellow students. Please be considerate.

ID Policy: It is mandatory that every student wear his/her ID at all times when on campus/clinical. Failure to wear ID badge will
result in the student not being allowed in class, and this will be recorded as an absent. This policy will be strictly adhered to.

**Electronic Devices:** All electronic devices (cell phones, pagers, etc.) must be turned off during class. These devices are not part of the instructional environment and may be confiscated by the instructor if utilized during class time. If you are a member of emergency preparedness, you must have authorization from the Dean of Student Services to keep your device on during class.

**Disabilities Statement:** The Student Services Division provides counseling and support services which help disabled students to pursue an academic program of their choice and participate fully in campus life. The Dean of Student Services can arrange counseling, special parking, priority registration and other services needed by the disabled student. Any disabled student is encouraged to request information regarding documentation standards or contact the Dean of Student Services. Please refer to the Catalog or on the college website at [www.netc.edu](http://www.netc.edu)

**CLASS POLICY:**
1. During a test, anyone caught exchanging information or copying someone else’s work will receive a grade of “F” for the test.

2. NO food or beverages are allowed in the classroom. Water is permitted; this will be strictly adhered to.

3. Students must wear their College ID at all times.

4. Instructor reserves the right to have students to alter seating arrangements during test.

5. All personal belongings will be placed in front of classroom prior to any test.

6. Failure to put your name on test paper will result in a grade of zero for that test.

7. Missed Pop Quizzes will result in a grade of zero.

**RESOURCES (A-V, persons, tools/equipment):**

**COURSE TOPICAL OUTLINE (List topics and sub-topics of course) and Calendar or approximate length of time devoted to topic.**

**TENTATIVE COURSE OUTLINE**

<table>
<thead>
<tr>
<th>WEEK 1</th>
<th>Chapter 3</th>
<th>Systems of Measurement</th>
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<tbody>
<tr>
<td>WEEK 2</td>
<td>Chapter 4</td>
<td>Conversions: Metric and Household Systems</td>
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</table>
COURSE TOPICAL OUTLINE (Continued)

WEEK 3  TEST #1
WEEK 4  Chapter 5  Conversions for Other Clinical Applications: Time and Temperature
WEEK 5  Chapter 6  Equipment Used in Dosage Measurement
WEEK 6  TEST #2
WEEK 7  Chapters 7&8  Interpreting Drug Orders/Understanding Drug Labels
WEEK 8  Chapter 9  Preventing Medication Errors
WEEK 9  TEST #3
WEEK 10  Chapters 10&11  Oral Dosage of Drugs & Parental Dosage of Drugs
WEEK 11  Chapter 12  Reconstitution of Solutions
WEEK 12  TEST #4
WEEK 13  Chapter 13  Pediatric and Adult Dosages Based on Body Weight
WEEK 14  Chapter 14  Alternative Dosage Calculation Methods
Chapter 15  Intravenous Solutions, Equipment, and Calculations
WEEK 15  TEST #5

FINAL EXAM

*NOTE: The above outline is a planned tentative outline; the instructor reserves the right to add or delete as needed and in the best interest of the student learner. Test schedule for above outline is listed on grade sheet for this subject.

COURSE LEARNING OUTCOMES:

Caring
1. Recognize problem areas in individuals with medical/surgical disorders.
2. Function as an advocate for the client by utilizing the nursing process through data collection, nursing interventions, and outcome evaluations on medical/surgical patients.
3. Explain the scope of medical/surgical practices across the life span.
4. Define the various methods of specialized nutritional support for clients based on their needs.
Communication
1. Utilize appropriate medical terminology and approved abbreviation and symbols through written and oral communication.
2. Utilize effective communication with members of the healthcare team.
3. Demonstrate beginning/advanced communication skills in interacting with clients, family members, peers, faculty and members of the healthcare team in limited clinical settings.

Critical Thinking
1. Utilize the knowledge and skills to administer safe, therapeutic care
2. Interpret common lab values and relevance of values related to the patient diagnosis.
3. Relate the various aspects of managing patient care to the nursing process.

Teaching and Learning
1. Utilize teaching and learning methods appropriate for the medical/surgical client across the lifespan.
2. Reinforce therapeutic approaches to patients

Professionalism
1. Identify the role of the LPN within the healthcare setting.
2. Demonstrate continued application of knowledge of the legal and ethical caring responsibilities of the nurse.

INSTRUCTIONAL METHODS:
1. Lecture/Discussions
2. Demonstrations and return demonstrations of skills
3. Care of selected patients
4. Audiovisuals and computer simulations
5. Handouts
6. Written assignments
7. Tests
8. Pop Quizzes
9. Assigned reading
10. Independent study
11. Library research activities
12. Educational resource testing and remediation as assigned

EVALUATE METHODS TO APPRAISE OBJECTIVES:

<table>
<thead>
<tr>
<th>Method</th>
<th>Weight (%)</th>
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<tbody>
<tr>
<td>Chapter Tests</td>
<td>70%</td>
</tr>
<tr>
<td>Pop Quiz</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
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GRADING SCALE:

A = 93 - 100
B = 86 - 92
C = 78 - 85
D = 71 - 77
F = 70 and below