Articulation Agreement Identifier: **PHM 100 (2010-1)** Identifier is the postsecondary course prefix followed by Plan-of-Instruction version number (e.g.; INT 100 (2007-1)).

Applicable CIP code(s): **51.0805 - Pharmacy Technician/Assistant**

Postsecondary course program code, number, and title: **PHM 100 - Introduction to Pharmacy**

Secondary Education course(s) number and title: **490022 - Intro to Pharmacy**

Date of Review: **April 17, 2012**

Effective date: **Fall Semester 2012.**

Course Content Analysis (all postsecondary course objectives must be sufficiently addressed in the secondary courses):

**Notes:**

1. **Skills and knowledge contained in the postsecondary course objectives must be present in the corresponding secondary objectives for a “match” to occur.**
2. **Postsecondary and Secondary objectives must reflect similar content and performance levels before the course articulation agreement will be recommended to the TEDAC Oversight Committee.**
3. **More than one Secondary course may be used in order to articulate to a Postsecondary course.**
### Module A - Foundations of Pharmacy

#### Professional Competency:
A1.0 Comprehend the role and development of the pharmacy profession.

**Performance Objective** - This competency is measured cognitively.

#### Learning Objectives:
- A1.1.1 Describe the importance of quality customer service for pharmacy technicians.
- A1.1.2 Describe the scope of practice for pharmacy technicians.
- A1.1.3 Differentiate between the scope of practice for pharmacy technicians and other members of the pharmacy team.
- A1.1.4 Discuss opportunities in the pharmacy profession.
- A1.1.5 Describe types of practice areas for pharmacy technicians.
- A1.1.6 Discuss the history and background of pharmacy for various periods of time.
- A1.1.6 Describe recent developments in the profession.
- A1.1.7 Identify the most commonly used medications by medication class.
- A1.1.8 Describe the uses and sources for the most common pharmacological agents.

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| Course Title: Introduction to Pharmacy  
| Unit 1 - Career Opportunities  
| **Content Standards:**  
| 1. Trace the development of pharmaceuticals.  
| 2. Compare roles of the pharmacist and the pharmacy technician in various settings, including the hospital and retail pharmacy.  
| **Learning Objectives:**  
| 1. Research and identify the development of pharmaceuticals drug sources, drug actions and their effect on the human body.  
| 2. Identify roles of the pharmacist and the pharmacy technician as they relate to various settings.  
| 3. Identify career options related to pharmacology.  
| 4. Apply the skills necessary to interpret and understand pharmacy and medical terminology. |
### Postsecondary Course Objectives

**MODULE B - LAWS AND REGULATIONS**  
**Professional Competency:**  
B1.0 Adhere to laws and regulations governing the pharmacy profession.  
**Performance Objectives** - This competency is measured cognitively.  
**Learning Objectives:**  
- B1.1.1 Describe regulations governing client privacy.  
- B1.1.2 Explain the purpose and role of the NABP.  
- B1.1.3 Discuss the purpose and role of various federal agencies.  
- B1.1.4 Describe the process of drug development and approval.  
- B1.1.5 Discuss local State Board of Pharmacy requirements.

**MODULE C - PHARMACY PRACTICE**  
**Professional Competency:**  
C1.0 Describe common practices for pharmacy technicians.  
**Performance Objective** - This competency is measured cognitively.  
**Learning Objectives:**  
- C1.1.1 Describe the importance of eliminating medication errors.  
- C1.1.2 Discuss the role of technology in reducing medication errors.  
- C1.1.3 Describe the importance of infection control.  
- C1.1.4 Describe various aseptic techniques.  
- C1.1.5 Describe handling and disposing of various pharmacological agents and equipment.  
- C1.1.6 Calculate doses.  
- C1.1.7 Differentiate between sterile and non-sterile compounding.  
- C1.1.8 Describe equipment used for pharmaceutical compounding.

### Secondary Course Objectives

**Course Title: Introduction to Pharmacy**  
**Unit 2 - Legal and Ethical Implications**  
**Content Standards:**  
3. Describe ethical characteristics required in the pharmacy workplace.  
4. Explain state laws and regulations pertaining to a career in pharmacy.  
**Learning Objectives:**  
1. Identify ethical characteristics for the pharmacy workplace.  
2. Identify state laws and regulations pertaining to pharmacy careers.  
3. Analyze regulations and practices related to storage mixtures and handling of pharmaceuticals.  
4. Interpret unethical behaviors and effect on consumers.

**Course Title: Introduction to Pharmacy**  
**Unit 3 - Medical Terminology**  
**Content Standards:**  
5. Translate medical terms, symbols, and abbreviations from prescriptions to laymen's terms.  
**Learning Objectives:**  
1. Define medical terms, symbols, and abbreviations related to prescriptions.  
2. Use medical terms to calculate dosages, systems of measurement and conversions from one system to another.  
3. Solve basic mathematical problems involving fractions, decimals, percentages, ratios and proportions.  

**Course Title: Introduction to Pharmacy**  
**Unit 4 - Technology**  
**Content Standards:**  
6. Use technology to facilitate transactions in a pharmacy.  
**Learning Objectives:**  
1. Utilize a variety of technology related to a pharmacy setting.  
2. Use technology to assess, process and retrieve information.
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<thead>
<tr>
<th>Postsecondary Course Objectives</th>
<th>Secondary Course Objectives</th>
<th>TEDAC Comments</th>
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<tbody>
<tr>
<td>C1.1.9 Discuss procedures for prescription dispensing.</td>
<td>with appropriate supervision.</td>
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<td><strong>Unit 5 - Math Concepts</strong></td>
<td><strong>Unit 6 - Technical Skills</strong></td>
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<td>7. Use mathematics concepts in pharmaceutical settings.</td>
<td>8. Demonstrate the procedure for filling prescriptions in a simulated pharmacy setting, including accepting medication orders, preparing prescription orders, labeling information, and dispensing drugs.</td>
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<td>• Calculating decimals, fractions, proportions, intravenous (IV) flow, and dosages; converting units between systems</td>
<td><strong>Learning Objectives:</strong></td>
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<td>2. Demonstrate use of dosage calculations, measurements and drug considerations.</td>
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<td><strong>Unit 7 - Pharmacology</strong></td>
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<td><strong>Content Standards:</strong></td>
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<td>9. Identify classifications of selected drugs.</td>
<td>10. Explain routes used for the administration of medicine during a simulated medical case study.</td>
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<td>10. Explain routes used for the administration of medicine during a simulated medical case study.</td>
<td>11. Differentiate among drug interactions, drug reactions, and side effects.</td>
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<td>2. Identify routes used for medication administration.</td>
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<td>3. Compare and contrast drug interactions, drug reactions, and side effects.</td>
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TEDAC Committee Recommendation:

X  Recommend articulation

 _____  Do not recommend articulation at this time (See comments)
     Do not recommend articulation

Dave Laton (signed)  4/17/12
Co-chair, Postsecondary Education TEDAC Committee

Mylinda Brown (signed)  4/17/12
Co-chair, Secondary Education TEDAC Committee

TEDAC Oversight Committee Recommendation:

X  Recommend articulation

 _____  Do not recommend articulation at this time (See comments)
     Do not recommend articulation

Dave Laton (signed)  8/22/12
Co-chair, Postsecondary Education TEDAC Oversight Committee

Mylinda Brown (signed)  8/22/12
Co-chair, Secondary Education TEDAC Oversight Committee