End of Semester Course Report

Health Science Human Service Department

**Directions:** Complete and forward to the Dean of Health Science (cc to the administrative assistant).

1. **Course Number and Name**: NURS 155: Clinical Decision Making in Drug Therapy
2. **Semester/Year**: Spring 2022 Fall Summer

3. **Course Faculty (include any adjunct faculty utilized):** Michelle Husbands

4. **Theory Ratio:** 36:1 **Clinical Ratio**: N/A **Simulation Ratio;** N/A

\* (Faculty to student ratios: Please use the number of students at the beginning of the semester for these.)

5. **Clinical Facility Evaluation** (How well did the used clinical sites assist students in meeting the course objectives? Choose one.)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Clinical Site Utilized | Strongly  Agree | Agree | Undecided | Disagree | Strongly  Disagree |
| No clinical sites utilized in this course |  |  |  |  |  |
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1. **Briefly describe any concern(s) regarding clinical site(s) used.**

N/A- No clinical component for this course

1. **Final Theory Outcomes:**
   1. Percent Passed: 100% (27 students)
   2. Percent Failed: 0%
   3. Range of Scores: 78.92% – 93.85%
2. **Final Clinical Outcomes:**
   1. Percent Satisfactory: N/A
   2. Percent Unsatisfactory: N/A
3. **Course Outcomes**:
   1. Beginning number of students: 36
   2. Withdrawals: 9 Dismissals: \_\_\_\_0\_\_\_\_\_\_\_
4. **Incompletes** (with expected date of completion): 0
5. **ATI Pharmacology Proficiency Levels – taken 3rd semester (NURS 257)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Fall 2021** | **Fall 2020** | **Fall 2019** | **Fall 2018** |
| Level 3 = 29.0% (9) | Level 3 = 23.7% (9) | Level 3 = 50% (13) | Level 3 = 39.4% (13) |
| Level 2 = 71.0% (22) | Level 2 = 68.4% (26) | Level 2 = 42.3% (11) | Level 2 = 54.5% (18) |
| Level 1 = 0% | Level 1 = 7.9% (3) | Level 1 = 7.7% (2) | Level 1 = 6.0% (2) |
| < Level = 0% | < Level = 0% | < Level = 0% | < Level = 0% |

\*The ATI proctored final proficiency exam was not administered spring 2022 in NURS 155 (2nd semester). It will be scheduled for fall 2022. Previously, the nursing faculty decided collectively as a department to have students take the proctored ATI proficiency exam in 3rd semester [NURS 257], after students have gained additional clinical knowledge and experience in assessing/administering/evaluating medications in clinical practice. \*Please refer to fall 2020 NURS 257 course report for this data.

**12. Course Overview**

* 1. **ATI Testing** – Instructor (M. Husbands) developed midterm & final exam utilizing the questions from the ATI test bank, the NCLEX-RN Comprehensive Review textbook 7th edition (2017) and NurseThink 3rd edition (2019).

|  |  |
| --- | --- |
| ATI Test bank / NCLEX-RN Comprehensive Review textbook 6th edition (20014) | When test used during semester |
| Instructor Developed Exam uploaded into Web Campus WebCapusWebCampusWeb Campus  6784822 | Midterm |
| Instructor Developed Exam uploaded into Web Campus | Final |
|  |  |

* 1. **Summary of how ATI is used in the course**:

ATI RN Pharmacology online course is divided over the Fall and Spring (2) semesters. For spring 2022 semester, the following ATI Modules medication categories were studied: Hematology Cardiovascular, Endocrine, GU/Reproductive and Nervous System medications.

The self-directed online ATI RN Pharmacology 4.0 program is the main method used in this course. The ATI online program is supplemented with weekly (75 minutes) traditional in-class lecture/discussion to provide the students the opportunity to clarify concepts and ask questions about the content. Prior to attending the in-class sessions, students are required to view and complete the online ATI module of the assigned medication classifications and review the corresponding drill questions, case study & quiz. Once completed, the students are required to upload an ATI transcript into Web Campus confirming completion and documentation of the time spent in completing the module. Using the Web Campus platform, an in-class module quiz was given covering the module content to evaluate the students’ comprehension.

To supplement the online instruction, the instructor used the accessible ATI information resource tools to review disease pathophysiology, pharmacological treatment, mechanism of action, nursing interventions, client education and legal, ethical and cultural principles related to safe medication administration for each of medication classifications covered. The instructor developed varied module assignments (pre-work): case studies, comparison chart/tables, fill-in diagrams for the students to complete to aid in clinical judgment/application.

**c. Course Exams**:

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The midterm & final exam were developed utilizing the questions from the ATI test bank, the NCLEX-RN Comprehensive Review textbook 7th edition (2017) and NurseThink 3rd edition (2019). The mid-term exam consisted of 50 questions with 1 additional NGN style question and the final exam consisted of 50 questions and 1 additional NGN style question.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| NURS 155 | Spring 2022 | Spring 2021 | Spring 2020 | Spring 2019 |
| Mid-term exam | Low – 63%  Mean – 85%  High – 97% | Low – 74%  Mean – 86%  High - 102%\* | Low – 72%  Mean – 89%  High – 98% | Low – 78%  Mean – 91%  High – 100% |
| Final exam | Low – 69%  Mean – 88%  High – 96% | Low – 70%  Mean – 89%  High – 98% | Low – 78%  Mean – 92%  High – 98% | Low – 82%  Mean – 98%  High – 104%\* |

ATI final proficiency exam not completed. Plan is to have students take the proctored ATI proficiency exam in 3rd semester after students have gained clinical experience in administering medications

\* Reflects the one additional question

Please refer to test blueprints for NURS 155 mid-term & final exam: nursing process, NCLEX, and cognitive level.

**13. Any issues identified**

* 1. As previously voiced in past semesters, several of the students report that the 75 minutes allotted for the weekly live in-class lectures to review the assigned module content did not allow for in-depth discussion due to numerous medications presented in each ATI module. Students continue to express that the course required a substantial amount of study in relation to it being a one credit course. Action: posted an announcement in the course of instructor’s willingness to devote 2 hours weekly for a supplemental study session via Zoom to all four (4) sites, aside from the regularly weekly schedule class. No students responded to offer.

**14. Any adjustments that may need to be done in course tests related to percentage & distribution of categories of content**. (Please see test blueprints and allotted percentage of item categories)

1. For spring 2022, all module quizzes (5), mid-term and final exam were reviewed, and slight revisions were made. Each module quiz consisted of 20 questions with one (1) additional NGN style question. The mid-term/final exam consisted of 50 questions with one (1) additional NGN style question. 26 out of 28 students passed the mid-term exam (63% - 97%) with average score of 85%. Two (2) students received less than 76% and were issued a notification of unsatisfactory progress (per NURS 155 syllabus). 26 out of 27 students passed the final exam (70% - 98%) with the average score of 89%. One (1) student receiving less than 76% and was issue a notification of unsatisfactory progress (per NURS 155 syllabus).

**15. Evaluation of textbooks**:

1. ATI RN Pharmacology, edition 8.0 (2019) was the textbook used for most of this class along with Davis Drug Guide, 16th edition (2017). The advanced information in Davis Drug Guide conflicted with some of the ATI module content. Students were encouraged to use the Davis Drug Guide as a dosage reference in the clinical/simulation setting and to use the ATI textbook and resource tools as the main content to supplement the online ATI module courses.

**16. Weekly content**: See uploaded Spring 2022 NURS 155 syllabi in course report file in the faculty G drive.

**17. Dosage Calculation Test:** Not administered in this course.

1. First attempt pass #
2. Second attempt pass #
3. Third attempt pass #
4. A & P committee recommendation:

**18. Special Experiences**:

1. None

**19. Teaching Methods**:

1. Self-directed ATI Pharmacology online course content, lecture with ATI Drug Information Tables, diagrams, PPP, embedded Nurse Mike, Nurse RN & Level Up RN You Tube videos, class discussion, and case studies.

**20. What worked well and reason (s):**

1. Class discussions were guided by utilizing the ATI Drug Information Tables. This approach seemed to work the best in presenting knowledge and for facilitating the students’ critical thinking skills.
2. Requiring the students to review, complete, and submit an ATI transcript of each module prior to class helped with more engaging discussion during class. Awarding points (1 thru 4) based on the number of hours a student dedicated to reviewing and completing the assigned modules motivated the students to be prepare for in-class involvement/discussion.
3. The development of pre-work module activities that include case studies, comparison charts/tables and fill-in diagrams helped aid in clinical application.
4. The developed of a client education video and informational handout assisted the students to better understand the medication they selected and to education clients in clinical practice. The development of the informational handout helped to provide client with pertinent information at an appropriate health literacy level using an online automatic text readability calculator.
5. Adding one (1) additional NGN style question to each module quiz, the mid-term and final exam was well received by the students and introduce the students to new NGN style question in preparation for the 2023 NCLEX exam.
6. Coordinating aligning the weekly module topics with the NURS 158 and NURS 159 course modules topics helped students better understand, associate, and apply the therapeutic uses of medications with the disease process.
7. Due to the vast amount of information provided by ATI, providing a study guide for the midterm/final exam helped the students to focus on important concepts & content.

**21. EBP, NPSG, and ANA standards were successfully/unsuccessfully addressed during this course**. Be specific.

1. EBP, NPSG & ANA standards were successfully met in that ATI provides students with the latest EBP research on all medications presented in their online program. NPSG and ANA standards are discussed when reviewing regarding medication administration within the ATI modules by providing safety alerts resources, if applicable. QSEN are measured standards on the test (see test blueprint).

**22. Anticipated Changes**

a. Changes to weekly content and reason (s):

* + 1. Will continue to use teaching methods listed under # 20 “What Worked Well.”

b. Changes to point allocation and reason (s):

1. No changes to point allocation and/or percentages of the learning activities (20%) (i.e., client educational video/handout, module pre-work) or quizzes/exams (80%) to assess the students’ comprehension of topics were made for spring 2022.
   1. Other changes and reason (s):
2. Will attempt to locate and incorporate more hands-on creative in-class activities (i.e., SimCloud simulation scenarios) to engage students in the application of learned information.
3. Obtain up-to-date formularies from clinical sites and review the most used medications in current practice and possibly review/revise the current list of medications presented in the modules. The rationale for this is that several of the medications studied in ATI are not commonly or currently used in clinical practice.
4. Consider rearranging the modules (Nervous System, Hematology, Cardiovascular, Endocrine & Reproductive/GU) to better align the ATI drug classifications with NURS 158 & NURS 159 to reinforce students’ learning. Rationale: starting with the Nervous system may help to better understand/application the medication to NURS 159 content.
5. Revisit, review, analyze, and possibly revise questions on module quizzes and exams. Increase the number/percentage of NGN style questions.
6. Consider inviting an expert guest speaker – i.e., pharmacist.
7. NURS 155 - Clinical Decision Making in Drug Therapy Student Learning Outcomes Survey (SLOs) Spring 2022.

* 18 out of 27 students completed the SLOs survey -
* SLO #1 – 100% strongly agreed & agreed
* SLO #2 - 100% strongly agreed & agreed
* SLO #3 - 100% strongly agreed & agreed
* SLO #4 - 100% strongly agreed & agreed
* SLO #5 – 94 % (17) strongly agreed & agreed; 6% (1) disagreed

**23. Administrative**:

* The course was backed up on Web Campus.
* Grades have been entered.
* Grade book has been printed and filed.

N/A Student work samples have been filed. – students will upload into NURS 273 (Spring 2023)

N/A Student clinical care packets have been filed.

**Faculty Signature: Michelle Husbands**

**Date: 05/29/2022**