

Course Assessment Report  
Washtenaw Community College

<b>Discipline</b>	<b>Course Number</b>	<b>Title</b>
Nursing	231	NUR 231 06/11/2014- Nursing of Children
<b>Division</b>	<b>Department</b>	<b>Faculty Preparer</b>
Math, Science and Health	Nursing & Health Science	Sherry MacGregor
<b>Date of Last Filed Assessment Report</b>		

**I. Assessment Results per Student Learning Outcome**

Outcome 1: Identify foundational principles of nursing care for children.

- Assessment Plan
  - Assessment Tool: Assessment Technologies Institute, LLC - Nursing Care of Children Exam
  - Assessment Date: Spring/Summer 2013
  - Course section(s)/other population: All
  - Number students to be assessed: 100% or ~48/sem
  - How the assessment will be scored: Assessment Technologies Institute provides standardized test results.
  - Standard of success to be used for this assessment: 75% of students will score at Proficiency Level 2 on 1st attempt.
  - Who will score and analyze the data: Course Coordinator

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2013, 2012, 2011	2014, 2013, 2012	

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
229	220

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

8 students didn't pass the course the first time and had to repeat it; so their number would have been included twice. (Students not passing the course don't take the ATI exam.) 1 student didn't pass so couldn't take the ATI exam and was not eligible to retake the class.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students are included; the course is taught face-to-face during the day.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The ATI (American Testing Institute, LLC) Nursing of Children exam was utilized to assess the students' knowledge, as the exam questions are very similar to NCLEX Exam questions. The exams are nationally normed and students scores are compared to these norms. Students get overall scores for the exam from a "below Level 1 - Level 3". Below Level 1= below minimum expectations and may be indicative of significant risk. Level 1= met the absolute minimum expectations for performance in this content area. Level 2=exceeded minimum expectations for performance in this content area. Level 3= exceeded most expectations for performance in this content area.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

**Met Standard of Success: Yes**

82.3% earned level 2 or 3 over the 6 semesters. Students did not score as well W'14 which was the first semester they were not mandated to score at a level 2. This is also the first time in 3 years that a student scored at a "< level 1".

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The test is broken into 7 areas with results for each question in each area, and overall results for each area as well. Students did best in Health Promotion and Maintenance, although they had problems with questions about parent education for infants in this area.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of

success, you may wish to identify your plans for continuous improvement.

Students did only moderately well with Safety and Infection Control (only 3 questions) and Basic Care and Comfort (5 questions). Safety and Infection Control had mixed results—in W'12 the students scored only 39%, but earned between 51 and 64% every other semester. I was surprised to see the students doing so poorly on the seizure precaution question in Safety and Infection Control since we spend a significant amount of time talking about seizures in class. I'm surprised they did as well as they did on the PKU question (Basic Care and Comfort) since it's supposed to be tested in Mother/Baby and isn't taught in pediatrics any more.

Outcome 2: Determine the appropriate nursing care of children experiencing system disorders by applying the nursing process.

- Assessment Plan
  - Assessment Tool: Assessment Technologies Institute, LLC - Nursing Care of Children Exam
  - Assessment Date: Spring/Summer 2013
  - Course section(s)/other population: All
  - Number students to be assessed: 100% or ~48/sem
  - How the assessment will be scored: Assessment Technologies Institute provides standardized test results.
  - Standard of success to be used for this assessment: 75% of students will score at or above Proficiency Level 2 on first attempt.
  - Who will score and analyze the data: Course Coordinator

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2013, 2012, 2011	2013, 2012, 2014	

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
229	220

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

8 students not passing the course the first time repeated it, so their number would have been included

twice. (Students not passing the course don't take the ATI exam.) 1 student didn't pass and was not eligible to retake the class.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students are included; the course is taught face-to-face during the day.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The ATI (American Testing Institute, LLC) Nursing of Children Exam was utilized to assess the students' knowledge, as the exam questions are very similar to NCLEX Exam questions. The exams are nationally normed and students' scores are compared to these norms. Students get overall scores for the exam from a "below Level 1 - Level 3". Below Level 1= below minimum expectations and may be indicative of significant risk. Level 1= met the absolute minimum expectations for performance in this content area. Level 2=exceeded minimum expectations for performance in this content area. Level 3= exceeded most expectations for performance in this content area.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

**Met Standard of Success: Yes**

82.3% earned level 2 or 3 over the 6 semesters. Students did not score as well W'14 which was the first semester they were not mandated to score at a level 2. This is also the first time in 3 years that a student scored < level 1.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The test is broken into 7 areas with scores given for each question in the area and overall scores for each area. Students did the best in the 3 areas that fit this outcome: Physiological Adaptation (22 questions); Pharmacological and Parental Therapies (11 questions); and Reduction of Risk potential (17 questions).

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Students had the hardest time with 2 lab value questions in the area of Reduction of Risk potential. They also had difficulty in the area of Pharm Therapy determining medication regimen for hematologic disorders and aerosol therapy for asthma. Their poorest result in Physiological Adaptation was the assessment findings for CV disorders and understanding peak flow meters. We can spend more time on lab values. I'd like to incorporate some kind of on-line matching games for some areas and this might be a good place for one. I have 2 new Peak Flow Meters. Demonstration in class may help with this question.

Outcome 3: Determine the appropriate nursing care of children with special needs.

- Assessment Plan
  - Assessment Tool: Assessment Technologies Institute, LLC - Nursing Care of Children Exam
  - Assessment Date: Spring/Summer 2013
  - Course section(s)/other population: All
  - Number students to be assessed: 100% or ~48/sem
  - How the assessment will be scored: Assessment Technologies Institute provides standardized test results.
  - Standard of success to be used for this assessment: 75% of students will score at or above Proficiency Level 2 on first attempt.
  - Who will score and analyze the data: Course Coordinator

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2013, 2012, 2011	2013, 2014, 2012	

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
229	220

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

8 students not passing the course the first time repeated it, so their number would have been included twice. (Students not passing the course don't take the ATI exam.) 1 student didn't pass and was not eligible to retake the class.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

All students are included; the course is taught face-to-face during the day.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

The ATI (American Testing Institute, LLC) Nursing of Children Exam was utilized to assess the students' knowledge, as the exam questions are very similar to NCLEX Exam questions. The exams are nationally normed and students' scores are compared to these norms. Students get overall scores for the exam from a "below Level 1 - Level 3". Below Level 1= below minimum expectations and may be indicative of significant risk. Level 1= met the absolute minimum expectations for performance in this content area. Level 2=exceeded minimum expectations for performance in this content area. Level 3= exceeded most expectations for performance in this content area.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

**Met Standard of Success: Yes**

82.3% earned level 2 or 3 over the 6 semesters. Students did not score as well W'14 which was the first semester they were not mandated to score at a level 2. This is also the first time in 3 years that a student scored < level 1.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The test is broken into 7 areas with scores given for each question in the area and overall scores for each area. The areas most clearly reflective of this outcome are Health Promotion and Maintenance, Physiological Adaptation, and Psychosocial Integrity. Students did the best in recognizing normal development and developmental delays; recognizing interventions needed for failure to thrive; and care for medical emergencies.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

Students had the hardest time with Psychosocial Integrity (only 2 questions). I was surprised to see the students doing so poorly on the abuse question in Psychosocial Integrity since we spend an entire class period talking about abuse.

## II. Course Summary and Action Plans Based on Assessment Results

1. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

As noted earlier, I was surprised by some areas students had trouble with when I thought they had been taught in sufficient depth. I'm also surprised by many areas where the students' scores vary from semester to semester. There are questions where the correct responses vary from 21 to 84%. Still, with most semesters showing results of 86% of students meeting the standards, I think the class is

meeting the needs of the students. There is the concern that with the loss of the mandate to meet Level 2 that fewer students will take this test seriously and the results will not be as high. W'14 showed just such a drop in student success, down to 71% meeting the standard. W'14 is the first semester students have NOT had to pass the peds ATI.

2. Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

I expect to share this assessment information at a nursing faculty meeting in the fall.

3. Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Course Assignments	I'd like to find/create an on-line matching game for lab values and also for frequently given meds.	These are the areas where most students struggle.	2014

4. Is there anything that you would like to mention that was not already captured?

Nursing faculty are looking at ways to put "teeth" back into the ATI so that students work harder to pass each ATI.

I didn't include W'11 in the assessment because the test had changed from the 2007 form (used in W'11 and earlier) and the 2010 form used from F'11 onwards. I did look at the data looking for significant changes, but didn't really find any.

We'll have a new test again, starting F'14.

### III. Attached Files

ATI Pass Rates

Specific ATI Question Results

**Faculty/Preparer:** Sherry MacGregor **Date:** 07/09/2014  
**Department Chair:** Rene Stark **Date:** 07/24/2014  
**Dean:** Kristin Brandemuehl **Date:** 07/29/2014  
**Assessment Committee Chair:** Michelle Garey **Date:** 09/24/2014

**COURSE ASSESSMENT REPORT**

**I. Background Information**

1. Course assessed:  
 Course Discipline Code and Number: **NUR 231**  
 Course Title: **Nursing of Children**  
 Division/Department Codes: **HAT/NHSD**
  
2. Semester assessment was conducted (check one):  
 Fall 2008-Fall 2009  
 Winter 2009-2010  
 Spring/Summer
  
3. Assessment tool(s) used: check all that apply.  
 Portfolio  
 Standardized test  
 Other external certification/licensure exam (specify):  
 Survey  
 Prompt  
 Departmental exam  
 Capstone experience (specify):  
 Other (specify):
  
4. Have these tools been used before?  
 Yes  
 No-New since Fall 2006

If yes, have the tools been altered since its last administration? If so, briefly describe changes made.

5. Indicate the number of students assessed/total number of students enrolled in the course.

**97.5% of students were assessed. There were a total of 160 students enrolled in the course during the 4 semesters Fall 2008 through Winter 2010. Two students did not pass the course on their first try. One student took the ATI after passing the course on her 2<sup>nd</sup> try and the second student hasn't completed the course with a C- yet. (This includes the 4 semesters Fall 2008 through Winter 2010. The test changed between Winter 2008 and Fall 2008 and those changes make comparisons difficult, so Fall '07/Winter '08 are not included.)**

6. Describe how students were selected for the assessment.  
**All APNURS students that pass the course (passing grade of a C- or higher) in NUR 231**

**II. Results**

1. Briefly describe the changes that were implemented in the course as a result of the previous assessment.

**N/A—this is the first course assessment since MSF was revised in 2007**

2. List each outcome that was assessed for this report exactly as it is stated on the course master syllabus.

1. **Identify the principles of nursing care for children from infancy through adolescence experiencing health deviations, by applying knowledge of previous nursing courses.**
2. **Determine the care of pediatric patients and their families experiencing health deviations by applying the nursing process.**
3. **Identify current strategies in the nursing care of children from infancy through adolescence to facilitate adaptation to optimal health.**

3. Briefly describe assessment results based on data collected during the course assessment, demonstrating the extent to which students are achieving each of the learning outcomes listed above. *Please attach a summary of the data collected.*

**The report received from the Assessment Technologies Institute (ATI) provides data for each group and individual scores to determine the percentage of students who met the course benchmark. Fall 2007 the**



**COURSE ASSESSMENT REPORT**

course benchmark was achievement of a score in the 60<sup>th</sup> percentile rank—national. The ATI changed how they reported scores in W'08. Therefore, the course benchmark became achievement of Level 2 proficiency, based upon a cut level percentage.

4. For each outcome assessed, indicate the standard of success used, and the percentage of students who achieved that level of success. *Please attach the rubric/scoring guide used for the assessment.*

**Revised Standard: 75% of all students should achieve a score at or above Level 2 proficiency.**

**Since the institution of the new exam, students have not met the benchmark stated above.**

W '10: (41 students) 53.7%  
 F '09: (36 students) 69.4%  
 W '09: (53 students) 66.04%  
 F '08: (30 students) 60.0%

Data were compared by fall and winter semester and by first vs. second 7 ½ weeks. No trends were apparent.

(Note: It's interesting that although students fell below the benchmark for the ATI test specific to pediatric nursing; in the cumulative exam taken at the end of the same semester, they were scoring at or above 80% on the pediatric questions.)

5. Describe the areas of strength and weakness in students' achievement of the learning outcomes shown in assessment results.

See attached rubric for subscales:

**Strengths: Safety and Infection Control, Growth and Development, Immunizations, End of Life Care, Pharmacological Adverse Effects, and Illness Management**

**Weaknesses: Students are not meeting the benchmark in many areas, but seem to have significant difficulties with many of the areas in Physiological Adaptation (except Illness Management)**

**III. Changes influenced by assessment results**

1. If weaknesses were found (see above) or students did not meet expectations, describe the action that will be taken to address these weaknesses.
- **Strengthen the content areas where students are doing the worst. More time will be spent in class to help students better understand this content.**
  - **Add 2<sup>nd</sup> assessment tool—RN Comprehensive Predictor Pediatric questions**
2. Identify intended changes that will be instituted based on results of this assessment activity (check all that apply). Please describe changes and give rationale for change.
- a.  Outcomes/Assessments on the Master Syllabus
    - **Change/rationale: Per the recommendation of the ATI, based upon expert studies, Proficiency Level 2 will remain the measure of achievement.**
    - **Change/rationale: The RN Comprehensive Predictor is an indicator of students learning the information they need to pass the NCLEXRN exam. The pediatric questions on this test are a second measure of students learning what they need to know about pediatric nursing. Outcome: 75% of students will correctly answer the pediatric questions at a Proficiency Level 2 (currently 65%).**
  - b.  Objectives/Evaluation on the Master Syllabus  
Change/rationale:
  - c.  Course pre-requisites on the Master Syllabus  
Change/rationale:
  - d.  1<sup>st</sup> Day Handouts

**COURSE ASSESSMENT REPORT**

Change/rationale:

- e.  Course assignments

Change/rationale:

- f.  Course materials (check all that apply)

Textbook

Handouts

Other: Unit objectives will be modified slightly to highlight information in content area where students are having difficulties (fluid and electrolytes, medical emergencies, pathophysiology, family dynamics, and therapeutic procedures).

- g.  Instructional methods

Change/rationale:

- h.  Individual lessons & activities

Change/rationale:

3. What is the timeline for implementing these actions? Fall 2010

**IV. Future plans**

1. Describe the extent to which the assessment tools used were effective in measuring student achievement of learning outcomes for this course.

2. If the assessment tools were not effective, describe the changes that will be made for future assessments.

3. Which outcomes from the master syllabus have been addressed in this report?

All X Selected \_\_\_\_\_

If "All", provide the report date for the next full review: **Spring/Summer 2013**

If "Selected", provide the report date for remaining outcomes: \_\_\_\_\_

**Submitted by:**

Print: Sherry MacGregor  
Faculty/Preparer

Signature

Date: July 2010

Print: Gloria Velarde  
Department Chair

Signature

Date: 7/27/2010

Print: Granville Lee  
Dean/Administrator

Signature

Date: 7/27/2010

NUR 231:

Section IV Future Plans:

1. Describe the extent to which the assessment tools used were effective in measuring students achievement of learning outcomes for this course. (I'm not sure how to answer this.)

**I think the assessment tool is effective. I'm able to see what the limitation are and what to work on. I wanted add the results from the pediatric questions on the cumulative exam because it gives a general overview of student understanding of the material.**

2. If the assessment tools were not effective, describe the changes that will be made for future assessments.

**The RN Comprehensive Predictor is an indicator of students learning the information they need to pass the NCLEX RN exam. The pediatric questions on this test are a second measure of students learning what they need to know about pediatric nursing. Outcome: 75% of students will correctly answer the pediatric questions at a Proficiency Level 2 (currently 65%).**

Sherry Lee MacGregor RN, MSN  
Nursing of Children Course Coordinator