Washtenaw Community College Comprehensive Report

NUR 115 Pharmacology
Effective Term: Winter 2025

Course Cover

College: Health Sciences
Division: Health Sciences
Department: Nursing
Discipline: Nursing
Course Number: 115
Org Number: 15200
Full Course Title: Pharmacology
Transcript Title: Pharmacology
Is Consultation with other department(s) required: Yes
Please Explain:
Curriculum and Advising have been consulted.
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission:
Change Information:
Consultation with all departments affected by this course is required.
Rationale: Math level is impacted by college-wide changes. Change is necessary to meet college requirements.
Proposed Start Semester: Winter 2025
Course Description: In this course, students will learn basic principles of pharmacology with a strong emphasis on medication safety along with drug dosage calculations. Pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of major drug classifications are discussed using a pathophysiological approach and then applied to patient situations. Drug contraindications, drug interactions, adverse effects, nursing management, and patient education are also discussed and then applied to patient situations. Anatomy and physiology is a course pre-requisite. This is a required course in the WCC Nursing Programs but may also be taken for transfer by any pre-nursing or nursing student.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 45 **Student:** 45
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 45 **Student:** 45
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

No Level Required

Requisites

Prerequisite
BIO 111 minimum grade "B-"
and
Prerequisite
BIO 212 minimum grade "C"; may enroll concurrently
and
Prerequisite
BIO 147 minimum grade "C"; may enroll concurrently
or
Prerequisite
BIO 237 minimum grade "C"; may enroll concurrently
and
Prerequisite
MTH 160 minimum grade "C"
or
Prerequisite
MTH 160X minimum grade "C"
Completion of MTH 160X will not raise the student's Academic Math Level to 3, which is required for at least one course in the APNURS or APNURL programs.
or
Prerequisite
MTH 176 minimum grade "C"
or a math course numbered 176 or higher with a minimum grade "C"

General Education

Request Course Transfer

Proposed For:

Eastern Michigan University
Grand Valley State University
Michigan State University
University of Detroit - Mercy
University of Michigan
Wayne State University
Other :

Student Learning Outcomes

1. Recognize drug classifications and related prototypes using a pathophysiological approach to provide safe patient care (EOPSLO 3).
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key
   Standard of success to be used for this assessment: 75% of students will score 78% or higher.
   Who will score and analyze the data: Departmental faculty
   Assessment 2
   Assessment Tool: Concept map
   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years

Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Departmentally-developed rubric
Standard of success to be used for this assessment: 75% of students will score 78% or higher.
Who will score and analyze the data: Departmental faculty

2. Interpret the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype to impact patient-centered care and associated quality patient outcomes (EOPSLO 1,3).
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
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   Standard of success to be used for this assessment: 75% of students will score 78% or higher.
   Who will score and analyze the data: Departmental faculty

3. Apply principles of effective nursing collaboration and communication to promote safe, evidence-based clinical judgment and error reduction in the pharmacological management of patients (EPOSLO 1,2,3,5).
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
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   Standard of success to be used for this assessment: 75% of students will score 78% or higher.
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   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Departmentally-developed rubric
   Standard of success to be used for this assessment: 75% of students will score 78% or higher.
   Who will score and analyze the data: Departmental faculty

4. Evaluate the professional nurse's role in adhering to standards of practice when using pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype to patient situations (EOPSLO 5).
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions

Assessment Date: Spring/Summer 2024
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Answer key
Standard of success to be used for this assessment: 75% of students will score 78% or higher.
Who will score and analyze the data: Departmental faculty

Assessment 2

Assessment Tool: Concept map
Assessment Date: Fall 2023
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Departmentally-developed rubric
Standard of success to be used for this assessment: 75% of students will score 78% or higher.
Who will score and analyze the data: Departmental faculty

Course Objectives

1. Discuss the impact of the history, legislation, drug schedules, and stages of new drug development on pharmacology in the 21st century.
2. Discuss the development of the nurse's role in the administration of drugs, drug implications, medication orders, types of drug orders, drug nomenclature, drug constituents, types/forms of drug preparations, and current sources of drug information.
3. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of drug prototypes to the pathophysiological approach.
4. Identify the principles of safe administration of medications using correct calculations, applying nursing considerations, and safeguarding against errors.
5. Apply knowledge of pathophysiology, pharmacodynamics, pharmacokinetics, and pharmacotherapeutics to prototype drugs used in treatment of inflammation and cancer; hematology and immunology problems; cardiovascular and respiratory problems; gastrointestinal and endocrine problems; and nervous, musculoskeletal, and reproductive problems.
6. Discuss nursing considerations and patient education for all drug prototypes.
7. Discuss potential interactions of complementary and alternative therapies such as herbals, supplements, and over the counter medications with prototype drugs, in context of patient situations.
8. Apply the principles of safe administration of medications to specific patient situations including safe dosage and calculation.
9. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all prototypes to patient situations, including drug-drug interactions and drug-food interactions.
10. Identify potential drug interactions with all prototypes and apply to patient situations.
11. Recognize the activity statements related to administration of medications and parenteral therapies that link the National Council Licensure Examination for Registered Nurses (NCLEX-RN) to practice.
12. Describe aspects of medication error reporting within the context of professional nursing practice.

New Resources for Course

SafeMedicate

Course Textbooks/Resources

Textbooks

Ernstmeyer, K. and Christman, E. (Eds).. *Nursing Pharmacology by Chippewa Valley Technical College*, Current ed. Licensed under Creative Commons, 2020, ISBN: 9781734914115.
Vallerand, A., Sanoski, C.. *Davis's Drug Guide for Nurses*, 17th ed. F. A. Davis, 2021, ISBN: 9781719640053.

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom
Off-Campus Sites
Computer workstations/lab
Other: Nursing computer classroom

Reviewer	Action	Date
Faculty Preparer:		
Theresa Bucy	*Faculty Preparer*	*Oct 14, 2024*
Department Chair/Area Director:		
Theresa Bucy	*Recommend Approval*	*Oct 14, 2024*
Dean:		
Ben Linford	*Recommend Approval*	*Oct 15, 2024*
Curriculum Committee Chair:		
Randy Van Wagnen	*Recommend Approval*	*Oct 18, 2024*
Assessment Committee Chair:		
Jessica Hale	*Recommend Approval*	*Oct 18, 2024*
Vice President for Instruction:		
Brandon Tucker	*Approve*	*Oct 19, 2024*

Washtenaw Community College Comprehensive Report

NUR 115 Pharmacology
Conditional Approval
Effective Term: Winter 2024

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College: Health Sciences
Division: Health Sciences
Department: Nursing
Discipline: Nursing
Course Number: 115
Org Number: 15200
Full Course Title: Pharmacology
Transcript Title: Pharmacology
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
Pre-requisite, co-requisite, or enrollment restrictions
Rationale: Restore the previous math prerequisites without mention of math level requirement.
Proposed Start Semester: Winter 2024
Course Description: In this course, students will learn basic principles of pharmacology with a strong emphasis on medication safety along with drug dosage calculations. Pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of major drug classifications are discussed using a pathophysiological approach and then applied to patient situations. Drug contraindications, drug interactions, adverse effects, nursing management, and patient education are also discussed and then applied to patient situations. Anatomy and physiology is a course pre-requisite. This is a required course in the WCC Nursing Programs but may also be taken for transfer by any pre-nursing or nursing student.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 45 **Student:** 45
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 45 **Student:** 45
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

No Level Required

Requisites

Prerequisite
BIO 111 minimum grade "B-"
and
Prerequisite
BIO 212 minimum grade "C"; may enroll concurrently
and
Prerequisite
BIO 147 minimum grade "C"; may enroll concurrently
or
Prerequisite
BIO 237 minimum grade "C"; may enroll concurrently
and
Prerequisite
MTH 160 minimum grade "C"
or
Prerequisite
MTH 176 minimum grade "C"
or a math course numbered 176 or higher with a minimum grade "C"

General Education

Request Course Transfer

Proposed For:

Eastern Michigan University
Grand Valley State University
Michigan State University
University of Detroit - Mercy
University of Michigan
Wayne State University
Other :

Student Learning Outcomes

1. Recognize drug classifications and related prototypes using a pathophysiological approach to provide safe patient care (EOPSLO 3).

Assessment 1

Assessment Tool: Outcome-related cumulative final exam questions
Assessment Date: Spring/Summer 2024
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Answer key (Blackboard Exam)
Standard of success to be used for this assessment: 75% of all students will score 78% or higher on the outcome-related questions.
Who will score and analyze the data: Department faculty

Assessment 2

Assessment Tool: Concept map
Assessment Date: Spring/Summer 2024
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of all students will score 78% or higher.
Who will score and analyze the data: Department faculty

2. Interpret the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype to impact patient-centered care and associated quality patient outcomes (EOPSLO 1,3).
   Assessment 1
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3. Apply principles of effective nursing collaboration and communication to promote safe, evidence-based clinical judgment and error reduction in the pharmacological management of patients (EPOSLO 1,2,3,5).
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   Standard of success to be used for this assessment: 75% of all students will score 78% or higher.
   Who will score and analyze the data: Department faculty

4. Evaluate the professional nurse's role in adhering to standards of practice when using pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype to patient situations (EOPSLO 5).

Assessment 1

Assessment Tool: Outcome-related cumulative final exam questions
Assessment Date: Spring/Summer 2024
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Answer key (Blackboard Exam)
Standard of success to be used for this assessment: 75% of all students will score 78% or higher on the outcome-related questions.
Who will score and analyze the data: Department faculty

Assessment 2

Assessment Tool: Concept map
Assessment Date: Fall 2023
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Departmentally-developed rubric
Standard of success to be used for this assessment: 75% of all students will score 78% or higher.
Who will score and analyze the data: Department faculty

Course Objectives

1. Define pharmacology terms, and discuss the impact of the history, legislation, drug schedules, and stages of new drug development on pharmacology in the 21st century.
2. Discuss the development of the nurse's role in the administration of drugs, drug implications, medication orders, types of drug orders, drug nomenclature, drug constituents, types/forms of drug preparations, and current sources of drug information.
3. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of drug prototypes to the pathophysiological approach.
4. Identify the principles of safe administration of medications using correct calculations, applying nursing considerations, and safeguarding against errors.
5. Apply knowledge of pathophysiology, pharmacodynamics, pharmacokinetics, and pharmacotherapeutics to prototype drugs used in treatment of inflammation and cancer; hematology and immunology problems; cardiovascular and respiratory problems; gastrointestinal and endocrine problems; and nervous, musculoskeletal, and reproductive problems.
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11. Recognize the activity statements related to administration of medications and parenteral therapies that link the NCLEX-RN exam to practice.
12. Describe aspects of medication error reporting within the context of professional nursing practice.

New Resources for Course

SafeMedicate

Course Textbooks/Resources

Textbooks

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Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom
Off-Campus Sites
Computer workstations/lab
Other: Nursing computer classroom

Reviewer	Action	Date
Faculty Preparer:		
Theresa Bucy	*Faculty Preparer*	*Nov 10, 2023*
Department Chair/Area Director:		
Theresa Bucy	*Recommend Approval*	*Nov 10, 2023*
Dean:		
Shari Lambert	*Request Conditional Approval*	*Nov 10, 2023*
Curriculum Committee Chair:		
Assessment Committee Chair:		
Vice President for Instruction:		
Brandon Tucker	*Conditional Approval*	*Nov 10, 2023*

Washtenaw Community College Comprehensive Report

NUR 115 Pharmacology
Conditional Approval
Effective Term: Winter 2024

Course Cover

College: Health Sciences
Division: Health Sciences
Department: Nursing
Discipline: Nursing
Course Number: 115
Org Number: 15200
Full Course Title: Pharmacology
Transcript Title: Pharmacology
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Three Year Review / Assessment Report
Change Information:
Outcomes/Assessment
Objectives/Evaluation
Rationale: Alignment of course Student Learning Outcomes with program End of Program Student Learning Outcomes noted within the text of the document. This is for accreditation purposes.
Proposed Start Semester: Winter 2024
Course Description: In this course, students will learn basic principles of pharmacology with a strong emphasis on medication safety along with drug dosage calculations. Pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of major drug classifications are discussed using a pathophysiological approach and then applied to patient situations. Drug contraindications, drug interactions, adverse effects, nursing management, and patient education are also discussed and then applied to patient situations. Anatomy and physiology is a course pre-requisite. This is a required course in the WCC Nursing Programs but may also be taken for transfer by any pre-nursing or nursing student.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 45 **Student:** 45
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 45 **Student:** 45
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Level 4

Requisites

Prerequisite
BIO 111 minimum grade "B-"
and
Prerequisite
BIO 212 minimum grade "C"; may enroll concurrently
and
Prerequisite
BIO 147 minimum grade "C"; may enroll concurrently
or
Prerequisite
BIO 237 minimum grade "C"; may enroll concurrently
and
Prerequisite
MTH 160 minimum grade "C"
or
Prerequisite
MTH 176 minimum grade "C"
or a math course numbered 176 or higher with a minimum grade "C"

General Education

Request Course Transfer

Proposed For:

Eastern Michigan University
Grand Valley State University
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University of Detroit - Mercy
University of Michigan
Wayne State University
Other :

Student Learning Outcomes

1. Recognize drug classifications and related prototypes using a pathophysiological approach to provide safe patient care (EOPSLO 3).
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   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key (Blackboard Exam)
   Standard of success to be used for this assessment: 75% of all students will score 78% or higher on the outcome-related questions.
   Who will score and analyze the data: Department faculty
   Assessment 2
   Assessment Tool: Concept map
   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 75% of all students will score 78% or higher.
Who will score and analyze the data: Department faculty

2. Interpret the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype to impact patient-centered care and associated quality patient outcomes (EOPSLO 1,3).
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Who will score and analyze the data: Department faculty

Assessment 2

Assessment Tool: Concept map
Assessment Date: Fall 2023
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Departmentally-developed rubric
Standard of success to be used for this assessment: 75% of all students will score 78% or higher.
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New Resources for Course

Course Textbooks/Resources

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Craig, G.. *Clinical Calculations Made Easy*, current ed. Philadelphia: Wolters Kluwer, 2020, ISBN: 9781496302823.

Vallerand, A., Sanoski, C.. *Davis's Drug Guide for Nurses*, 17th ed. F. A. Davis, 2021, ISBN: 9781719640053.

Manuals

Periodicals

Software

VSIM for Pharmacology. Wolters-Kluwer, Current ed.
Adaptive, interactive virtual simulations with integrated curriculum resources and personalized feedback provide a full simulation learning experience for every student to promote confidence and competence in patient-centered care.

Equipment/Facilities

Level III classroom
Off-Campus Sites
Computer workstations/lab
Other: Nursing computer classroom

Reviewer	Action	Date
Faculty Preparer:		
Theresa Bucy	*Faculty Preparer*	*Mar 21, 2023*
Department Chair/Area Director:		
Theresa Bucy	*Recommend Approval*	*Mar 21, 2023*
Dean:		
Shari Lambert	*Recommend Approval*	*Mar 24, 2023*
Curriculum Committee Chair:		
Randy Van Wagnen	*Request Conditional Approval*	*Jun 01, 2023*
Assessment Committee Chair:		
Vice President for Instruction:		
Victor Vega	*Conditional Approval*	*Jun 05, 2023*

Washtenaw Community College Comprehensive Report

NUR 115 Pharmacology
Effective Term: Spring/Summer 2023

Course Cover

College: Health Sciences
Division: Health Sciences
Department: Nursing
Discipline: Nursing
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Org Number: 15200
Full Course Title: Pharmacology
Transcript Title: Pharmacology
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
Pre-requisite, co-requisite, or enrollment restrictions
Outcomes/Assessment
Rationale: Unintended changes from previous course assessment being corrected to align with program passing standards. ATI should have been removed from all outcomes; it is not used to assess Outcome #3 either.
Proposed Start Semester: Spring/Summer 2023
Course Description: In this course, students will learn basic principles of pharmacology with a strong emphasis on medication safety along with drug dosage calculations. Pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of major drug classifications are discussed using a pathophysiological approach and then applied to patient situations. Drug contraindications, drug interactions, adverse effects, nursing management, and patient education are also discussed and then applied to patient situations. Anatomy and physiology is a course pre-requisite. This is a required course in the WCC Nursing Programs but may also be taken for transfer by any pre-nursing or nursing student.

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College-level Reading & Writing

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No Level Required

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Prerequisite
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Prerequisite
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Prerequisite
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Grand Valley State University
Michigan State University
University of Detroit - Mercy
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   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key (Blackboard Exam)
   Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher.
   Who will score and analyze the data: Department faculty

2. Apply knowledge of pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype to patient situations.
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2024
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections

Number students to be assessed: All students
How the assessment will be scored: Answer key (Blackboard Exam)
Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher.
Who will score and analyze the data: Department faculty

3. Apply knowledge of nursing considerations, safety implications, and drug dosage calculations to patient situations.

Assessment 1

Assessment Tool: Outcome-related cumulative final exam questions
Assessment Date: Spring/Summer 2024
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Answer key
Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher
Who will score and analyze the data: Department faculty

Course Objectives

1. Define pharmacology terms, and discuss the impact of the history, legislation, drug schedules, and stages of new drug development on pharmacology in the 21st century.
2. Discuss the development of the nurse's role in the administration of drugs, drug implications, medication orders, types of drug orders, drug nomenclature, drug constituents, types/forms of drug preparations, and current sources of drug information.
3. Identify the principles of safe administration of medications using correct calculations, applying nursing considerations, and safeguarding against errors.
4. Discuss the pathophysiological approach for medications used to treat inflammation and cancer; hematology and immunology problems; cardiovascular and respiratory problems; gastrointestinal and endocrine problems; and nervous, musculoskeletal, and reproductive problems. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of drug prototypes to the pathophysiological approach.
5. Discuss applying nursing considerations and patient education to all drug prototypes.
6. Identify the application of complementary alternative therapies including herbals, supplements, and over the counter medications. Identify potential drug interactions with all prototypes and their application to patient situations.
7. Apply the principles of safe administration of medications to specific patient situations including safe dosage and calculation.
8. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all prototypes to patient situations, including drug-drug interactions and drug-food interactions.
9. Recognize the activity statements related to administration of medications and parenteral therapies that link the NCLEX-RN exam to practice.

New Resources for Course

Course Textbooks/Resources

Textbooks

Craig, G.. *Clinical Calculations Made Easy*, 6th ed. Philadelphia: Wolters Kluwer, 2017, ISBN: 9781496302823.

Adams, M., Holland, N., Urban, C.. *Pharmacology for Nurses, A Pathophysiologic Approach*, 6th ed. Pearson, 2020, ISBN: 0-13-521833-0.

Vallerand, A., Sanoski, C.. *Davis's Drug Guide for Nurses*, 17th ed. F. A. Davis, 2021, ISBN: 9781719640053.

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom
Off-Campus Sites
Computer workstations/lab
Other: Nursing computer classroom

Reviewer	Action	Date
Faculty Preparer:		
Theresa Bucy	*Faculty Preparer*	*Nov 02, 2022*
Department Chair/Area Director:		
Theresa Bucy	*Recommend Approval*	*Nov 02, 2022*
Dean:		
Shari Lambert	*Recommend Approval*	*Nov 03, 2022*
Curriculum Committee Chair:		
Randy Van Wagnen	*Recommend Approval*	*Mar 11, 2023*
Assessment Committee Chair:		
Shawn Deron	*Recommend Approval*	*Mar 15, 2023*
Vice President for Instruction:		
Victor Vega	*Approve*	*Mar 15, 2023*

Washtenaw Community College Comprehensive Report

NUR 115 Pharmacology
Effective Term: Winter 2023

Course Cover

College: Health Sciences
Division: Health Sciences
Department: Nursing
Discipline: Nursing
Course Number: 115
Org Number: 15200
Full Course Title: Pharmacology
Transcript Title: Pharmacology
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
Consultation with all departments affected by this course is required.
Outcomes/Assessment
Rationale: Update outcome language; update tools to measure outcomes; update textbook.
Proposed Start Semester: Spring/Summer 2022
Course Description: In this course, students will learn basic principles of pharmacology with a strong emphasis on medication safety along with drug dosage calculations. Pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of major drug classifications are discussed using a pathophysiological approach and then applied to patient situations. Drug contraindications, drug interactions, adverse effects, nursing management, and patient education are also discussed and then applied to patient situations. Anatomy and physiology is a course pre-requisite. This is a required course in the WCC Nursing Programs but may also be taken for transfer by any pre-nursing or nursing student.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 45 **Student:** 45
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 45 **Student:** 45
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Level 4

Requisites

Prerequisite
BIO 111 minimum grade "B-"
and
Prerequisite
BIO 212 minimum grade "B-"; may enroll concurrently
and
Prerequisite
BIO 147 minimum grade "B-"; may enroll concurrently
or BIO 237 minimum grade "B-"; may enroll concurrently
and
Prerequisite
MTH 160 minimum grade "C"
or a math course at math level 4 or higher with a minimum grade of "C"

General Education

Request Course Transfer

Proposed For:

Eastern Michigan University
Grand Valley State University
Michigan State University
University of Detroit - Mercy
University of Michigan
Wayne State University
Other :

Student Learning Outcomes

1. Recognize drug classifications and related prototypes using a pathophysiological approach.
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key (Blackboard Exam)
   Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher.
   Who will score and analyze the data: Department faculty

2. Apply knowledge of pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype to patient situations.
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key (Blackboard Exam)
   Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher.
   Who will score and analyze the data: Department faculty

3. Apply knowledge of nursing considerations, safety implications, and drug dosage calculations to patient situations.

Assessment 1

Assessment Tool: Outcome-related cumulative final exam questions
Assessment Date: Spring/Summer 2022
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: Answer key
Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher
Who will score and analyze the data: Department faculty

Assessment 2

Assessment Tool: ATI Dosage Calculation Fundamentals Proctored Exam
Assessment Date: Spring/Summer 2022
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: External evaluation by ATI Assessment Technologies LLC
Standard of success to be used for this assessment: 90% of students will score 90% or higher.
Who will score and analyze the data: ATI Assessment Technologies LLC will score and the course coordinator will analyze the data.

Course Objectives

1. Define pharmacology terms, and discuss the impact of the history, legislation, drug schedules, and stages of new drug development on pharmacology in the 21st century.
2. Discuss the development of the nurse's role in the administration of drugs, drug implications, medication orders, types of drug orders, drug nomenclature, drug constituents, types/forms of drug preparations, and current sources of drug information.
3. Identify the principles of safe administration of medications using correct calculations, applying nursing considerations, and safeguarding against errors.
4. Discuss the pathophysiological approach for medications used to treat inflammation and cancer; hematology and immunology problems; cardiovascular and respiratory problems; gastrointestinal and endocrine problems; and nervous, musculoskeletal, and reproductive problems. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of drug prototypes to the pathophysiological approach.
5. Discuss applying nursing considerations and patient education to all drug prototypes.
6. Identify the application of complementary alternative therapies including herbals, supplements, and over the counter medications. Identify potential drug interactions with all prototypes and their application to patient situations.
7. Apply the principles of safe administration of medications to specific patient situations including safe dosage and calculation.
8. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all prototypes to patient situations, including drug-drug interactions and drug-food interactions.
9. Recognize the activity statements related to administration of medications and parenteral therapies that link the NCLEX-RN exam to practice.

New Resources for Course

Course Textbooks/Resources

Textbooks

Craig, G.. *Clinical Calculations Made Easy*, 6th ed. Philadelphia: Wolters Kluwer, 2017, ISBN: 9781496302823.

Adams, M., Holland, N., Urban, C.. *Pharmacology for Nurses, A Pathophysiologic Approach*, 6th ed. Pearson, 2020, ISBN: 0-13-521833-0.

Vallerand, A., Sanoski, C.. *Davis's Drug Guide for Nurses*, 17th ed. F. A. Davis, 2021, ISBN: 9781719640053.

Manuals
Periodicals
Software

Equipment/Facilities

Level III classroom
Off-Campus Sites
Computer workstations/lab
Other: Nursing computer classroom

Reviewer	Action	Date
Faculty Preparer:		
Theresa Bucy	*Faculty Preparer*	*Feb 04, 2022*
Department Chair/Area Director:		
Theresa Bucy	*Recommend Approval*	*Feb 07, 2022*
Dean:		
Shari Lambert	*Recommend Approval*	*Feb 11, 2022*
Curriculum Committee Chair:		
Randy Van Wagnen	*Recommend Approval*	*Mar 28, 2022*
Assessment Committee Chair:		
Shawn Deron	*Recommend Approval*	*Apr 04, 2022*
Vice President for Instruction:		
Kimberly Hurns	*Approve*	*Apr 05, 2022*

Washtenaw Community College Comprehensive Report

NUR 115 Pharmacology
Effective Term: Spring/Summer 2021

Course Cover

Division: Health Sciences
Department: Nursing
Discipline: Nursing
Course Number: 115
Org Number: 15200
Full Course Title: Pharmacology
Transcript Title: Pharmacology
Is Consultation with other department(s) required: No
Publish in the Following: College Catalog , Time Schedule , Web Page
Reason for Submission: Course Change
Change Information:
Consultation with all departments affected by this course is required.
Outcomes/Assessment
Objectives/Evaluation
Rationale: Include ATI Pharmacology Made Easy and Dosage Calculations modules with a Dosage Calculation proctored exam at the end of the course which will configure into their final grade.
Proposed Start Semester: Winter 2021
Course Description: In this course, students learn basic principles of pharmacology with a strong emphasis on medication safety along with drug dosage calculations. Pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of major drug classifications are discussed using a pathophysiological approach and then applied to patient situations. Drug contraindications, drug interactions, adverse effects, nursing management, and patient education are also discussed and then applied to patient situations. Anatomy and physiology is a course pre-requisite. This is a required course in the WCC Nursing Programs but may also be taken for transfer by any pre-nursing or nursing student.

Course Credit Hours

Variable hours: No
Credits: 3
Lecture Hours: Instructor: 45 **Student:** 45
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 45 **Student:** 45
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Level 4

Requisites

Prerequisite
BIO 111 minimum grade "B-"
and
Prerequisite
BIO 212 minimum grade "C"; may enroll concurrently
and
Prerequisite
BIO 147 minimum grade "C"; may enroll concurrently
or BIO 237 minimum grade "C"; may enroll concurrently
and
Prerequisite
MTH 160 minimum grade "C"
or MTH 176 or a math course numbered 176 or higher with a minimum grade of "C"

General Education

Request Course Transfer

Proposed For:
Eastern Michigan University
Grand Valley State University
Michigan State University
University of Detroit - Mercy
University of Michigan
Wayne State University
Other :

Student Learning Outcomes

1. Recognize drug classifications and related prototypes using a pathophysiological approach.
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key (Blackboard Exam)
   Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher.
   Who will score and analyze the data: Department faculty
   Assessment 2
   Assessment Tool: Three outcome-related Guided/Documentation Reflection question sets
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: A grading rubric will score the Guided Reflection/Documentation question sets.
   Standard of success to be used for this assessment: 90% of all students who submit the Guided Reflection/Documentation question sets will score 78% or higher.
   Who will score and analyze the data: Departmental faculty
   Assessment 3
   Assessment Tool: ATI Dosage Calculation Fundamentals Proctored Exam
   Assessment Date: Spring/Summer 2022

Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: External evaluation by ATI Assessment Technologies LLC.
Standard of success to be used for this assessment: 80% of students will score Level I or Level II or higher on the exam.
Who will score and analyze the data: ATI Assessment Technologies LLC will score and Course Coordinator will analyze the data.

2. Recognize the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of each prototype and apply to patient situations.
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key (Blackboard Exam)
   Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher.
   Who will score and analyze the data: Department faculty
   Assessment 2
   Assessment Tool: Three outcome-related Guided Reflection question sets
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All Students
   How the assessment will be scored: A grading rubric will score the Guided Reflection question sets.
   Standard of success to be used for this assessment: 90% of all students who submit the Guided Reflection question sets will score 78% or higher.
   Who will score and analyze the data: Departmental faculty
   Assessment 3
   Assessment Tool: ATI Dosage and Calculation Fundamentals Proctored Exam
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: External evaluation by ATI Assessment Technologies LLC.
   Standard of success to be used for this assessment: 80% of students will score Level I or Level II or higher on the exam.
   Who will score and analyze the data: ATI Assessment Technologies LLC will score and Course Coordinator will analyze the data.

3. Recognize nursing considerations along with safety implications and drug dosage calculations for prototypical drugs in each classification and apply to patient situations.
   Assessment 1
   Assessment Tool: Outcome-related cumulative final exam questions
   Assessment Date: Spring/Summer 2022
   Assessment Cycle: Every Three Years
   Course section(s)/other population: All sections
   Number students to be assessed: All students
   How the assessment will be scored: Answer key (Blackboard Exam)

Standard of success to be used for this assessment: 75% of all students who take these questions on the final exam will score 78% or higher.
Who will score and analyze the data: Department faculty

Assessment 2

Assessment Tool: ATI Dosage Calculation Fundamentals Proctored Exam
Assessment Date: Fall 2022
Assessment Cycle: Every Three Years
Course section(s)/other population: All sections
Number students to be assessed: All students
How the assessment will be scored: External evaluation by ATI Assessment Technologies LLC
Standard of success to be used for this assessment: 80% of students will score Level I or Level II or higher on the exam
Who will score and analyze the data: ATI Assessment Technologies LLC will score and Course Coordinator will analyze the data.

Course Objectives

1. Define pharmacology terms, and discuss the impact of the history, legislation, drug schedules, and stages of new drug development on pharmacology in the 21st century.
2. Discuss the development of the nurse's role in the administration of drugs, drug implications, medication orders, types of drug orders, drug nomenclature, drug constituents, types/forms of drug preparations, and current sources of drug information.
3. Identify the principles of safe administration of medications using correct calculations, applying nursing considerations, and safeguarding against errors.
4. Discuss the pathophysiological approach for medications used to treat inflammation and cancer; hematology and immunology problems; cardiovascular and respiratory problems; gastrointestinal and endocrine problems; and nervous, musculoskeletal, and reproductive problems. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of drug prototypes to the pathophysiological approach.
5. Discuss applying nursing considerations and patient education to all drug prototypes.
6. Identify the application of complementary alternative therapies including herbals, supplements, and over the counter medications. Identify potential drug interactions with all prototypes and their application to patient situations.
7. Apply the principles of safe administration of medications to specific patient situations including safe dosage and calculation.
8. Apply the pharmacodynamics, pharmacokinetics, and pharmacotherapeutics of all prototypes to patient situations, including drug-drug interactions and drug-food interactions.
9. Recognize the activity statements related to administration of medications and parenteral therapies which link the NCLEX-RN exam to practice.

New Resources for Course

ATI Pharmacology Made Easy and Safe Dosage and Calculation Modules. ATI Safe Dosage and Calculations practice tests and Fundamentals proctored exam.

Course Textbooks/Resources

Textbooks

Burns-Coral, M.. *Pharmacology for Undergraduate Nursing Students with a Basic Pathophysiological Connection*, 1st ed. Open Educational Resources, 2019

Manuals

American Nurses Association (ANA). Code of ethics for nurses with interpretative statements, Nursesbooks.org, 01-01-2015

American Nurses Association. Nursing: Scope and standards of Practice, Nursesbooks.org, 01-01-2015

Periodicals

Software

Virtual Simulation for Pharmacology. Laerdal and Wolters Kluwer, 1st ed.
Designed to simulate real nursing scenarios, vSim allows students to interact with patients in a safe, realistic environment administering medications and calculating doses and educating their patients.

Equipment/Facilities

Level III classroom
Off-Campus Sites
Computer workstations/lab
Other: Nursing computer classroom

Reviewer	Action	Date
Faculty Preparer:		
Mary Burns-Coral	*Faculty Preparer*	*Jul 23, 2020*
Department Chair/Area Director:		
Theresa Bucy	*Recommend Approval*	*Nov 30, 2020*
Dean:		
Valerie Greaves	*Recommend Approval*	*Dec 01, 2020*
Curriculum Committee Chair:		
Lisa Veasey	*Recommend Approval*	*Jan 29, 2021*
Assessment Committee Chair:		
Shawn Deron	*Recommend Approval*	*Feb 01, 2021*
Vice President for Instruction:		
Kimberly Hurns	*Approve*	*Feb 04, 2021*