

This plan provides the PLO/SLO assessment plan and report for AY 2022-2025

Name of the program: __MS Clinical Nutrition_____

Dean' signature Gordon Schmidt

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To ensure NYIT's CPI process meeting *MSCHE Standard V: Educational Effectiveness Assessment: Assessment of student learning and achievement demonstrates that the institution's students have accomplished educational goals consistent with their program of study, degree level, the institution's mission, and appropriate expectations for institutions of higher education.* in this CPI report, each department is requested to create a three-year assessment/evaluation plan to improve student learning **for each degree programs**. Reports should address the following points:

Program's Student Learning Outcome Assessment Plan

1. PLO: State/update each degree program's learning outcomes. MS Clinical Nutrition
 1. Examine nutrient characteristics, food sources, bioavailability and utilization of nutrients within the body.
 2. Formulate plans for maximizing wellness and prevention of chronic disease.
 3. Assess pathophysiology, risk factors and clinical manifestation of diseases related to nutrition.
 4. Evaluate the normal and therapeutic nutrition needs of adults and children and design appropriate dietary plans based on individual and group needs.

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5. Review, evaluate and critique professional nutrition research and resources.
6. Compose written and oral presentations geared to lay and professional audiences.

2. Matrix: provide/update the assessment matrix that indicates which learning outcomes are assessed in which set of courses. The original matrix is here: http://www.nyit.edu/planning/academic_assessment_plans_reports.

Courses with *asterisk are the required courses in the program. The balance are electives (Program required 24 credits of required courses and 12 credits of electives courses)

Outcomes						
Courses	<i>1. Examine ..</i>	<i>2. Formulate ..</i>	<i>3. Assess ...</i>	<i>4. Evaluate..</i>	<i>5. Review....</i>	<i>6. Compose....</i>
CLNU 610	x		x		x	x
CLNU 615	x	x	x	x	x	x
CLNU 625	x	x	x	x	x	
CLNU 630	x	x			x	x

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CLNU 635		x		x		x
CLNU 640	x	x	x	x	x	x
CLNU 645	x	x			x	x
CLNU 650		x	x		x	x
CLNU 670		x	x	x	x	
CLNU 680	x		x		x	x
CLNU 710		x			x	x
CLNU 720		x	x		x	x
CLNU 750	x	x	x	x	x	x
CLNU 770	x	x	x	x	x	x

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CLNU 772	x				x	
CLNU 774	x	x			x	x
CLNU 779		x	x		x	x
787/8/9	x	x	x	x	x	
799			x	x		x

3. **METHOD:** Describe the method of assessment, and measurement instruments (e.g., rubric, exam items, scoring guide for a particular task, supervisor evaluation form, and standardized assessment tool). Note: direct learning outcome assessment is required. Both direct and indirect assessment are strongly recommended.

Direct measuring instruments include but not limited to: course assignment, portfolios, internships evaluation, capstone course work, thesis, research project, standardized tests, etc.

Indirect measuring instruments include but not limited to: Student survey, interview, alumni survey, employer survey, focus group, students' reflection, etc.

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- **Direct Measure: Outcome 6:** Compose written and oral presentations geared to lay and professional audiences. In CLNU 635 Community Nutrition, at least 80% of the students will achieve at least 80% on the nutrition education assignment (20% of the course grade). This assignment demonstrates that a student can perform the four phases of nutrition education which are: conceptualization, formulation,

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implementation and evaluation. The assignment includes a written lesson plan, a narrated slide presentation and narrated original handout. Though an online asynchronous class, students gain experience with oral as well as written presentations by using Canvas Studio, recorded Zoom or recorded narrated PowerPoint shared with the class through Discussion Board

Results: 100% of the students got at least an 80 on this assignment. Nine students were enrolled in the course and one did not complete the assignment and took an incomplete in the course due to a health issue. Of the 9 completing the assignment, one student received an 88 and the other 8 received grades above 90. Due to the importance of this assignment (20% of course grade) and skills learned that will be used in professional settings, much attention is given to this assignment with scaffolding throughout the semester. Six weeks before the assignment is due, students are asked to commit to a topic and develop learning outcomes.

- Direct Measure Outcome 5: Review, evaluate and critique professional nutrition research and resources. In CLNU 750 Clinical Nutrition: Theory and Practice I, at least 80% of the class will achieve at least an 80 on the research project that is part of this course. This assignment demonstrates that a student is able to effectively research a topic, evaluate the findings and present the results to a target audience convincingly, understandably and in a professional manner.

Results: 100% of the students got at least an 80% on this assignment.

- Direct Measure Outcomes 1-5:
Comprehensive Exam: The Comprehensive Exam is taken by all graduating students and focuses on outcomes 1-5. The exam is divided into three subsections of Nutrients and Pathophysiology, Assessment and Nutrition Therapy which allows department leadership to zero in on an area in which students may be weaker. Students must pass the exam with a score of at least 75. Goal: At least 85% will score at least an 80.

Results: 100% of the students (n=4) received at least an 80. (Grades were 82,84,87, 93)

- Indirect Measure Outcomes 1-6: Exit Survey. Students are asked in this survey if they perceive that all program learning outcomes are

reached.

Results: Three out of four students graduating completed the survey. 100% of the students strongly agreed that learning outcomes were reached. In the narrative part of the survey, one student noted that “All resources provided by professors was extremely useful.” Another, in reference to the fully online format of the program noted deep satisfaction with the program and ability to access from anywhere in the world.”

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- Direct Measure Outcome 2: Assess pathophysiology, risk factors and clinical manifestation of diseases related to nutrition.
In CLNU 670: Nutrition Assessment, performing a comprehensive nutrition assessment and make appropriate nutrition diagnosis can be measured if 80% of the class achieving at least an 80 on three comprehensive case studies. Successful completion of this assignment requires utilization of the Evidence Analysis Library, Nutrition Care Manual, and the Nutrition Care Process Terminology (NCTP). It will demonstrate that the student understands nutrient needs throughout the lifecycle.

Results: 100% of the students (n=7) got at least an 80% on this assignment.

Case study 1 average grade: 91.4%

Case study 2 average grade: 86.8%

Case study 3 average grade: 88.2%

- Director Outcome 4: Evaluate the normal and therapeutic nutrition needs of adults and children and design appropriate dietary plans based on individual and group needs. In CLNU 770 Clinical Nutrition: Theory and Practice II at least 80% of the students will achieve at least 80% on three comprehensive medical nutrition case studies. This will demonstrate that the student understands nutrient and disease pathophysiology and is able to provide nutrition intervention, ongoing nutrition monitoring and evaluation and medical documentation.

Results: 100% of the students (n=6) got at least an 80% on this assignment.

Case study 1 - 100% of students achieved 80%; average grade: 95.6%

Case study 2 - 80% of students achieved 80%; average grade: 88.6%

Case study 3 - 100% of students achieved 80%; average grade: 97.6%

- Director Measure Outcomes 1-5:

Comprehensive Exam: The Comprehensive Exam is taken by all graduating students and focuses on outcomes 1-5. The exam is divided into three subsections of Nutrients and Pathophysiology, Assessment and Nutrition Therapy which allows department leadership to zero in on an area in which students may be weaker. Students must pass the exam with a score of at least 75. Goal: At least 85% will score at least an 80.

Results: 100% of the students (n=6) passed the exam. Five out of six scored between 86-93 (83.3%) while one student passed with a grade of 79. We know that this particular student shouldered a lot of personal life burdens in tandem with being in this graduate program and we were happy to see her successfully graduate. However, we thus narrowly missed our goal of 85% and we will incorporate more review for the exam next year to assist us in reaching our goal.

Indirect Measure Outcomes 1-6: Exit Survey. Students are asked in this survey if they perceive that all program learning outcomes are reached. Goal: 80% of students agree that each goal is reached.

Results: 100% of the students (n=6) agreed or strongly agreed that all learning outcomes of the program were met. In the narrative portion of the survey, students mentioned that case studies were very helpful to applying theoretical knowledge and that discussion boards gave the opportunity to share knowledge with professors and classmates. They noted the accessibility and support they received from professors and the

appropriateness of books and other resources. While some noted they would have enjoyed synchronous interaction, they all noted that the asynchronous, online environment afforded them tremendous flexibility in completing this degree.

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- Direct Measure Outcome 1: Examine nutrient characteristics, food sources, bioavailability and utilization of nutrients within the body. In CLNU 680 Molecular Biology of the Nutrients, 80% of the class will get at least an 80 on the Literature Review and Research Proposal Students must write a (grant) proposal on a topic addressing a micronutrient and a clinical problem. The topic should link the micronutrient to a specific clinical problem, where the disease process and/or outcome may be influenced by changes in the intake of the nutrient.
- Direct measure Outcome 2: Formulate plans for maximizing wellness and prevention of chronic disease. In CLNU 720 Nutrition Pathophysiology II, at least 80% of the class will earn at least 80% on the research assignment. This project requires the student to select an appropriate current primary research article from a peer-reviewed journal to read, analyze and summarize in a PowerPoint presentation for the class. The topic chosen should link a nutrient or a functional food to a specific disease, where the disease process and/or outcome can be influenced by changes in intake of this nutrient or functional food.
- Director Measure Outcomes 1-5:
Comprehensive Exam: The Comprehensive Exam is taken by all graduating students and focuses on outcomes 1-5. The exam is divided into three subsections of Nutrients and Pathophysiology, Assessment and Nutrition Therapy which allows department leadership to zero

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in on an area in which students may be weaker. Student must pass the exam with a score of at least 75. Goal: At least 85% will score at least an 80.

- Indirect Measure Outcomes 1-6: Exit Survey. Students are asked in this survey if they perceive that all program learning outcomes are reached.

4. Timeline of the PLO assessment: for example:

	2022-2023	2023-2024	2024-2025
Outcome 1: Examine....			x
Outcome 2: Formulate....			x
Outcome 3: Assesss.....		x	
Outcome 4: Evaluate		x	
Outcome 5; Review, critique..	x		
Outcome 6: Compose...	x		

5. Personal responsibilities for implementing the assessment, collecting data and analyzing the results against expected outcomes

Dr. Mindy Haar, department chair, and Dr. Lorraine Mongiello, academic coordinator of the MS program, will present the CPI plan to faculty at the outset of each academic year and review the plan and expectations for data collection. Faculty teaching designated courses each semester will be briefed on what information must be collected and the timeline for submission. Drs. Haar and Mongiello will be responsible for data collection and result analysis against expected outcomes.

II. Brief description of how the plan is shared and communicated with all faculty members in the department.

Drs. Haar and Mongiello are the fulltime members of the program but results will be shared with all part-time faculty members at a meeting which will take place each semester. When benchmarks are not met, Dr. Mongiello will work with the faculty member to pinpoint areas for improvement in coursework.

Last updated 7/8/24






CPI MS Nutrition

Final Audit Report

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