



COLLEGE of SOCIAL AND APPLIED HUMAN SCIENCES

DEPARTMENT OF FAMILY RELATIONS
AND APPLIED NUTRITION

NUTR*4040 Clinical Nutrition II COURSE OUTLINE – FALL 2021

1. CALENDAR DESCRIPTION

This course is a continuation of [NUTR*3090](#). This lecture based course is concerned with the application of nutrition to clinical conditions. Methods and content of medical nutrition therapy in prevention and treatment of gastrointestinal, renal, hepatic diseases and catabolic states will be emphasized. Ethical issues in nutrition management of disease and health professional practice will be addressed

Credit Weight: 0.5 credits

Course Hours: 3-0 (36 lecture; 0 lab/seminar)

Pre-Requisite(s): 14.50 credits including, [1 of BIOM*2000, (BIOM*3100 or BIOM*3110), BIOM*3200], (NUTR*3040 or NUTR*3090) Restriction(s): Registration in the B.A.Sc. AHN major.
Department(s): Department of Family Relations and Applied Nutrition)

Co-Requisites(s): None

Restriction(s): Registration in the B.A.Sc. AHN major

2. COURSE DESCRIPTION

NUTR*4040 is a continuation of NUTR*3090. This lecture and case study based course focuses on the role of nutrition in the management and/or treatment of various diseases and conditions. Nutritional support (enteral and parenteral) and methods and mechanisms of medical nutrition therapy in catabolic, renal and gastrointestinal conditions will be emphasized. Cancer, Cystic Fibrosis and hepatic and neurological conditions will also be covered, as will ethical and professional issues in dietetic practice.

3. TIMETABLE

Lecture: Tuesdays and Thursdays 1:00-2:20PM

Location: [MCKN](#), Room 031 and/or our Zoom classroom accessed via CourseLink

Final Exam: Dec. 16, 2021 11:30-1:30. Location TBA

4. INSTRUCTIONAL SUPPORT

Course Instructor: Laura Forbes, PhD, RD

Email: forbesl@uoguelph.ca

Telephone: 519-824-4120 ext. 52544

Office: MAC 328

Office Hours: Phone calls and/or video calls by appointment

Teaching Assistants: Aiyu Liu, MSc, RD and Sarah Wedde, MSc candidate, RD

5. LEARNING RESOURCES

Required Resource(s):

Course notes: A printed version is available from the bookstore. Notes are also free for download from CourseLink

Recommended Resource(s):

The same textbook recommended for Clinical Nutrition I:

Mahan, Escott-Stump, Raymond. Krause's Food and the Nutrition Care Process. 13th or 14th edition. Elsevier Saunders, St. Louis Missouri, 2012.

Other Free or Optional Resources:

1. You will find the following resources in CourseLink; click on "Content" (on the navbar at the top) and then "Online Readings and Resources":
 - Abbott Nutrition. Adult Nutritional Products Guide. 2011.
 - Health Canada. Nutrient Value of Some Common Foods. 2008.
 - College of Dietitians of Ontario. Jurisprudence & Professional Practice Resources, 2019.
2. Online Access to the Academy of Nutrition and Dietetics' Nutrition Care Manual (free to University of Guelph AHN students!). You can access this without a password if you are on campus and navigate to it through the library website. Alternatively, cut and paste the following url into your browser: <http://www.nutritioncaremanual.org/>

Username: lday@uoguelph.ca (this is lower case LDAY)

Password: uoguelph

There is a limit of 5 users at any one time, so occasionally you may get a message that you can't get in because the 'seats' are full. It hasn't been an issue in the past, but if it does happen, wait a few moments and then try again.

On Reserve at the Library

Gibson RS. Principles of Nutritional Assessment, 2nd ed. New York: Oxford University Press, 2005.

Mahan, Escott-Stump, Raymond. Krause's Food and the Nutrition Care Process. 13th or 14th edition. Elsevier Saunders, St. Louis Missouri, 2012.

6. LEARNING OUTCOMES

At the completion of the course, successful students will be able to:

1. Create Nutrition Care Plans for patients with various conditions by A. conducting nutrition assessments, B. making nutrition diagnoses, C. planning and executing nutrition interventions (diet prescriptions, counselling or nutrition education), and D. monitoring and evaluating progress.
2. Summarize the background, etiology, pathophysiology, medical management, nutrition implications and nutrition management of various conditions including metabolic stress, chronic renal disease, selected upper and lower gastrointestinal conditions, cancer, hepatic diseases, Cystic Fibrosis and Alzheimer's Disease.
3. Demonstrate broad knowledge of common medications (classifications, modes of action, side effects, drug-nutrient interactions) prescribed to patients with the conditions outlined in #2 above.
4. Demonstrate productive teamwork and communication skills.
5. Identify and explain common issues related to professional and ethical practice of dietetics including knowledge of regulatory requirements relevant to the profession

7. TEACHING AND LEARNING ACTIVITIES

Week	Topics	Assigned Readings & Asynchronous material	Notes & Due Dates
1	Welcome, course overview, learning outcomes and the Nutrition Care Process	Course Outline Notes Chp 1-4	
2	Hospital Food Service Nutrition Support: <i>Oral and Enteral</i> Assign case study teams	Notes Chp 5, 7 Krause Chp 13 Video: Tube placement in enteral nutrition Video: Refeeding syndrome	
3	Nutrition Support: <i>Parenteral</i> Debrief enteral nutrition practice case	Notes Chp 8 Krause Chp 13 Video: Osmolarity and Osmolality Video: Overfeeding	Complete Enteral Practice Case by Sept 21 st

Week	Topics	Assigned Readings & Asynchronous material	Notes & Due Dates
4	Disaster Planning Metabolic Stress	Notes Chp 6, 9 Krause Chp 39 Video: The ebb and flow phases of metabolic stress	
5	Metabolic Stress Renal Disease	Notes Chp 10 Krause Chp 36 Video: Kidneys and blood calcium regulation	Metabolic stress case and Self/Peer Assessments due at 4pm on Fri Oct. 8th
6	Renal Disease	Notes Chp 10 Krause Chp 36 Video: Dialysis	
7	Renal Disease Debrief Metabolic Stress Case	Notes Chp 10 Krause Chp 36	
8	Upper GI Lower GI Debrief Renal Case	Notes Chp 11 and 12 Krause Chp 28 and 29, dysphagia p 929-933. Video: Swallowing and texture modification videos	Renal case and Self/Peer Assessments due at 4pm on Wed. Oct. 27 th
9	Midterm Exam! Lower GI	Notes Chp 12 Krause Chp 29	Midterm exam in class on Nov. 2 nd .
10	Cancer Midterm Debrief	Notes Chp 13 Krause Chp 37	GI case and Self/Peer Assessments due at 4pm on Fri Nov. 12th
11	Cancer Hepatic Diseases	Notes Chp 14 Krause Chp 30 Video: Portal Hypertension	Chart Note Assignment. Optional early submission for feedback due Nov. 16th at 4pm

Week	Topics	Assigned Readings & Asynchronous material	Notes & Due Dates
12	Cystic Fibrosis Debrief GI Case Alzheimer's Disease	Notes Chp 15, 16 Krause p 790-794 and p 939-942 Video: Manifestations of cystic fibrosis	Cancer case and Self/Peer Assessments due at 4pm on Wed Nov 24th
13	Dietetic Practice Debrief Cancer Case Exam Review	Notes Chp 17 Jurisprudence Handbook for Dietitians in Ontario, 2015 (available on CourseLink)	Chart Note Assignment due at 4pm Fri Dec. 3 Professional Practice and Jurisprudence Quiz Due at 4pm Fri Dec. 3

Note: This is a tentative schedule; however, due to various unknown factors there may be changes. Any changes will be announced during class and an announcement will be posted on the CourseLink site

8. ASSESSMENT DETAILS

Assessment	LOs Addressed	Due Date	% of Final
Case studies (3 graded, best 2 counted) NOTE: You MUST do the Renal Case Study	1-4	Throughout the Semester	20% (10% each)
Midterm exam – covering material up to the end of renal disease	1-4	Tuesday Nov. 2nd	25% OR 40%*
Medical Charting Assignment	4	Tuesday Nov. 16 optional early submission Fri. Dec. 3 by 4pm	5%** 5% OR 10%**
Professional practice and jurisprudence online quiz	5	Available on CourseLink, can be completed any time during the semester. You may attempt the quiz an unlimited number of times. Due by Dec. 3.	5%

Assessment	LOs Addressed	Due Date	% of Final
Final exam – from GI onwards <u>only</u> . The final exam is NOT cumulative.	1-4	Dec. 16 11:30-1:30	25% OR 40%*
Total:			100%

* Either the midterm or the final exam will be worth 40%, depending on which mark is higher. The test on which the student scores a lower mark will be worth 25%.

9. COURSE STATEMENTS

In person vs Zoom classes

This year, students will be able to attend classes in person and/or attend in an online Zoom classroom simultaneously. Video recordings of the lectures via Zoom will be available on CourseLink after each class. Please remember that these video recordings should NOT be shared with others outside of our class to protect the privacy of your peers. I am currently planning on holding the midterm exam in class. If you are not able to attend an in class midterm, we will make arrangements for you to complete your exam at home. This will likely be using Respondus software, but this plan may change over the course of the semester.

In case of technical difficulties during class time...

If you are experiencing technical difficulties (i.e. internet outages) during class time, please try to reconnect and if that is not possible, access the video recorded lectures after the class time. If I (Dr. Forbes) am experiencing technical difficulties I will try to restart the class for 10 minutes. If I am not back online within 10 minutes, please consider the online class over for the day. The rest of the content will be video recorded and uploaded to CourseLink within 2 business days.

E-mail Policy

Please try to keep email to a minimum. For your course content related questions, please ask me during lectures, office hours or post on the “Ask the Prof” CourseLink discussion page. Please check the discussion page regularly – your question may already have been answered! Please e-mail me if there is an emergency or to ask more personal questions (i.e. I’m sick and will miss the midterm, what do I do?” or “I’m having problems with my case study group”)

Course Website:

There is a course website at <http://courselink.uoguelph.ca>. All components of this course will be housed on the CourseLink site including this course outline, assignments, and links to further resources. Your assignments will be submitted through the Dropbox function. Marks and feedback will also be released on the site. Please familiarize yourself with this website as soon as possible and visit it regularly throughout the semester.

Late Assignments:

Late assignments will be accepted up to 5 days following the due date and will receive a penalty of 10% per day EXCEPT under documented grounds for compassionate consideration.

Assignments submitted more than one week late without documented grounds will receive a grade of zero. If you are going to hand an assignment in late, you must contact your course instructor to inform them when you will be submitting your assignment.

Receipt of Grades:

After you receive a grade on CourseLink, please review your feedback. Any inquiry or dispute over the grade must be made within two weeks from the date they are posted. If you fail to protest any grade during this time limit, changes to the grade will not be considered. [Grades will be based on the Grading Procedures outlined in the Undergraduate Calendar.](#)

Turnitin Software:

In this course, your instructor will be using Turnitin, integrated with the CourseLink Dropbox tool, to detect possible plagiarism, unauthorized collaboration or copying as part of the ongoing efforts to maintain academic integrity at the University of Guelph.

All submitted assignments will be included as source documents in the Turnitin.com reference database solely for the purpose of detecting plagiarism of such papers. Use of the Turnitin.com service is subject to the Usage Policy posted on the Turnitin.com site.

A major benefit of using Turnitin is that students will be able to educate and empower themselves in preventing academic misconduct. In this course, you may screen your own assignments through Turnitin as many times as you wish before the due date. You will be able to see and print reports that show you exactly where you have properly and improperly referenced the outside sources and materials in your assignment.

10. UNIVERSITY STATEMENTS

E-mail communication:

As per university regulations, all students are required to check their <uoguelph.ca> e-mail account regularly: e-mail is the official route of communication between the University and its students.

When you cannot meet a course requirement:

When you find yourself unable to meet in-course requirements due to illness or compassionate reasons, please advise the course instructor (or designated person, such as a teaching assistant) in writing with name, ID#, and email contact. [See the undergraduate calendar for information on regulations and procedures for Academic Consideration.](#)

Drop date:

Students have until the last day of classes to drop courses without academic penalty. The regulations and procedures for [Dropping Courses](#) are available in the Undergraduate Calendar.

Copies of out-of-class assignments:

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

Accessibility:

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required, however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to book their exams at least 7 days in advance, and not later than the 40th Class Day.

More information: www.uoguelph.ca/sas

Academic misconduct:

The University of Guelph is committed to upholding the highest standards of academic integrity and it is the responsibility of all members of the University community – faculty, staff, and students – to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff and students have the responsibility of supporting an environment that discourages misconduct. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

[The Academic Misconduct Policy is detailed in the Undergraduate Calendar.](#)

Recording of materials:

Presentations which are made in relation to course work—including lectures—cannot be recorded or copied without the permission of the presenter, whether the instructor, a

classmate or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

Resources:

The [Academic Calendars](#) are the source of information about the University of Guelph’s procedures, policies and regulations which apply to undergraduate, graduate and diploma programs.

Illness:

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g., final exam or major assignment).

Safety Protocols:

For information on current safety protocols, follow these links:

<https://news.uoguelph.ca/return-to-campuses/how-u-of-g-is-preparing-for-your-safe-return/>
<https://news.uoguelph.ca/return-to-campuses/spaces/#ClassroomSpaces>

Please note, these guidelines may be updated as required in response to evolving University, Public Health or government directives.

Disclaimer:

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such changes will be announced via CourseLink and/or class email. This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website (<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

Appendix:

For those students enrolled in the Area of Emphasis in Dietetics: The Integrated Competencies for Dietetic Education and Practice (2013; <http://www.pdep.ca/>):

Foundational Knowledge Specifications (FKS) that are met by this course:

Foundational Knowledge Specification	Complexity Level (1, 2, 3)	How FKS is met in this curriculum
1. Anatomy and Physiology		
1a. Structure of the human body at the macro and cellular level	1	Throughout
1b. Role, function and regulation of the integumentary, musculoskeletal, nervous,	3	Throughout

Foundational Knowledge Specification	Complexity Level (1, 2, 3)	How FKS is met in this curriculum
endocrine, cardiorespiratory, urinary, lymphatic and digestive systems in health and human disease 1c. Homeostasis including fluid-electrolyte and acid-base balance	2	Trauma, renal
2. Biochemistry 2d. Mechanisms of metabolic regulation	2	
3. Communication 3b. Communication channels and techniques, and their appropriate usage 3c. Strategies for effective written communication 3f. Medical and dietetics-related terminology	3 3 3	Medical charting assignment Medical charting Assignment Case studies
4. Counselling 4b. Counselling strategies and techniques 4c. Counselling processes	3 3	Case studies
5. Food 5e. Application of dietary requirements, guidelines, and guidance tools to food planning 5f. Food modification to address therapeutic, textural or other needs	3 3	Case studies Dysphagia case study
6. Food Service Systems 6c. Institutional menu modification to address therapeutic, textural, cultural or other needs	3	Diet modification content, dysphagia content and a case study
7. Health System in Canada 7a. Organization and delivery of care 7b. Issues and trends 7c. Political influence	1 1 1	Throughout
8. Nutrition Across the Lifespan 8a. Ingestion, digestion, absorption, metabolism and excretion of nutrients 8b. Biochemical utilization of nutrients and energy 8c. Nutrient and energy requirements 8e. Nutrition recommendations and guidelines 8g. Food sources of nutrients and dietary supplements	3 2 3 3 3	Throughout
9. Interprofessional Collaboration 9a. Interprofessional communication 9b. Patient/client/family/community-centred care	2 3 3	Case studies

Foundational Knowledge Specification	Complexity Level (1, 2, 3)	How FKS is met in this curriculum
9c. Interprofessional role clarification include the role of the registered dietitian	3	
9d. Team functioning	3	
9e. Collaborative leadership		
12. Nutrition Assessment		
12a. Food and nutrient intake of individuals and populations	3	Embedded throughout the course, and in case studies
12b. Environmental and individual factors affecting food intake	3	
12c. Anthropometric data collection and interpretation	3	
12d. Biochemical parameter interpretation	3	
12e. Clinical data collection and interpretation	3	
13. Nutrition Care Process and Medical Nutrition Therapy		
13a. Etiology and pathophysiology of nutrition-related diseases	3	Embedded throughout the course, and in case studies
13b. Nutrition-related disease management strategies	3	
13c. Use of assessment, diagnosis, intervention, monitoring, evaluation (ADIME) in medical nutrition therapy	3	
13d. Calculation of energy and nutrient requirements for conditions/diseases	3	
13e. Goal setting and outcome measurement in nutrition therapy	3	
13f. Oral, enteral and parenteral nutrition support	3	
13g. Feeding assessment, including identification of chewing, swallowing and feeding problems	2	
13h. Complementary and alternative nutrition therapies	1	
14. Pharmacology		
14a. Drug classification relevant to nutrition and their modes of action	3	Embedded throughout the course, and in case studies. Natural health products are covered in the cancer unit
14b. Common medication side effects and contraindications relevant to nutrition	3	
14c. Drug-nutrient interactions	3	
14e. Natural health products	1	
15 f Disaster planning	1	Lecture on disaster

Foundational Knowledge Specification	Complexity Level (1, 2, 3)	How FKS is met in this curriculum
		planning, midterm exam
16. Professional Practice in Dietetics		
16a. Federal, provincial/territorial requirements	2	Online quiz
16b. Practice in a regulated health profession	2	
16c. Ethical conduct	2	
16d. Reflective practice	1	
16e. Professional development	1	
16f. Decision making	3	
16j. Appropriate and secure documentation practices	2	
18. Research and Evaluation		
18d. Evidence-informed practice	1	Throughout
19. Psychological and Social Foundations		
19b. Social and psychological aspects of eating and food choice, in health and disease	1	Throughout and in case studies
20. Teaching and Learning		
20e. Learning resource selection and development	3	Case studies

Performance Indicators (PI) that are met by this course:

Performance Indicator	How PI is met in this curriculum
1. Professional Practice	
1.01 Comply with federal and provincial / territorial requirements relevant to dietetic practice.	Quiz and/or final exam
1.01a. Demonstrate knowledge of federal legislation, regulations and policies applicable to practice.	
1.01b. Recognize non-compliance with federal legislation, regulations and policies.	
1.01c. Demonstrate knowledge of provincial / territorial legislation, regulations and policies applicable to practice.	
1.01d. Recognize non-compliance with provincial / territorial legislation, regulations, and policies.	
1.02 Comply with regulatory requirements relevant to dietetic practice	
1.02a. Demonstrate knowledge of bylaws and regulations relevant to practice.	Quiz

Performance Indicator	How PI is met in this curriculum
<p>1.02b. Recognize non-compliance with bylaws and regulations.</p> <p>1.02c. Demonstrate knowledge of regulatory scope of practice, standards of practice and codes of ethics.</p> <p>1.02d. Recognize non-compliance with regulatory scope of practice, standards of practice and code of ethics.</p> <p>1.02m. Demonstrate knowledge of the elements of professional boundaries</p> <p>1.02n. Recognize non compliance with professional boundaries.</p>	<p>Quiz</p> <p>(1) Case studies into which scope of practice is embedded, (2) final exam</p> <p>Quiz</p> <p>Final exam</p> <p>Quiz</p>
<p><i>1.06 Use a systematic approach to decision making.</i></p> <p>1.06a. Demonstrate knowledge of the role of ethics, evidence, contextual factors and client perspectives in decision making.</p> <p>1.06b. Demonstrate knowledge of ethical principles for decision making.</p> <p>1.06d. Demonstrate knowledge of contextual factors that may influence decision making.</p> <p>1.06e. Obtain and interpret evidence</p>	<p>Case studies</p> <p>Final exam</p> <p>Case studies</p> <p>Case studies</p>
<p><i>1.07 Maintain a client-centred focus</i></p> <p>1.07a. Demonstrate knowledge of the legal and moral basis for respecting individual rights, dignity and uniqueness.</p>	<p>Final exam</p>
<p><i>1.09 Use technologies to support practice</i></p> <p>1.09c. Demonstrate knowledge of technologies to seek and manage information relevant to practice, and their appropriate uses.</p> <p>1.09d. Use technology to seek and manage information.</p>	<p>Use of PEN pathways and general literature searching imbedded into written case studies</p> <p>Use of PEN pathways and general literature searching imbedded into written case studies</p>
<p><i>1.10 Ensure appropriate and secure documentation.</i></p> <p>1.10a. Demonstrate knowledge of documentation principles.</p>	<p>Medical chart note writing assignment</p>
<p><i>1.11 Assess and enhance approaches to dietetic practice</i></p> <p>1.11a. Demonstrate knowledge of the role of evidence, self reflection, and consultation in</p>	<p>Case studies require students to identify consultation needs with</p>

Performance Indicator	How PI is met in this curriculum
<p>assessing effectiveness of approaches to practice.</p> <p>1.11b. Demonstrate knowledge of sources of evidence to assess effectiveness of approaches to practice.</p> <p>1.11e. Seek new knowledge that may support or enhance practice activities.</p>	<p>other health care professionals, e.g. MD. Students also incorporate evidence-based practice in case studies.</p> <p>Case studies require students to identify a monitoring plan as part of the Nutrition Care Process</p> <p>Case studies require students to consult literature and PEN Pathways to support their Nutrition Care Plan</p>
2. Communication and Collaboration	
<p><i>2.01 Select appropriate communication approaches.</i></p> <p>2.01e. Demonstrate knowledge of medical and dietetics-related terminology</p>	<p>Students are required to use appropriate medical and dietetics-related terminology in completion of case studies</p>
<p><i>2.02 Use effective written communication skills.</i></p> <p>2.02c. Edit written material for style, spelling and grammar</p> <p>2.02d. Write clearly and concisely, in a manner responsive to the needs of the reader(s).</p> <p>2.02e. Write in an organized and logical fashion.</p> <p>2.02f. Provide accurate and relevant information in written material.</p> <p>2.02g. Ensure that written material facilitates communication.</p>	<p>Case studies</p>
<p><i>2.04 Use effective interpersonal skills.</i></p> <p>2.04b. Utilize active listening</p> <p>2.04h. Establish rapport</p>	<p>Group work during case studies</p>
<p><i>2.06 Contribute productively to teamwork and collaborative processes.</i></p> <p>2.06b. Demonstrate knowledge of ways to effectively contribute dietetics knowledge in collaborative practice.</p> <p>2.06d. Demonstrate knowledge of common scenarios where the expertise of other health care providers is a key element in dietetic practice.</p> <p>2.06i. Facilitate interactions and discussions among team members.</p>	<p>Case studies</p>

Performance Indicator	How PI is met in this curriculum
<i>3. Nutrition Care</i>	
<p><i>3.01 Assess nutrition-related risks and needs</i></p> <p>3.01a. Demonstrate knowledge of principles for selection and use of common nutrition risk screening strategies.</p> <p>3.01c. Demonstrate knowledge of ways to identify relevant data to perform a nutrition assessment.</p> <p>3.01g. Demonstrate knowledge of principles for obtaining and interpreting a medical history.</p> <p>3.01h. Identify principles for selection of relevant medical information.</p> <p>3.01v. Demonstrate knowledge of ways to obtain and interpret information from mealtime / feeding observations.</p> <p>3.01aa. Identify signs and symptoms of dysphagia.</p> <p>3.01dd. Demonstrate knowledge of selection and use of methods used to determine energy, protein, fluid, macronutrient, micronutrient, electrolyte and trace element requirements.</p> <p>3.01ee. Perform calculations to determine nutritional requirements.</p> <p>3.01gg. Identify methods to integrate assessment findings and identify nutrition problems.</p> <p>3.01hh. Integrate assessment findings to identify nutrition problem(s).</p> <p><i>3.02 Develop nutrition care plans.</i></p> <p>3.02a. Demonstrate knowledge of principles for prioritization of nutrition care goals based on risk and available resources.</p> <p>3.02c. Demonstrate knowledge of ways to identify and select appropriate nutrition interventions.</p> <p>3.02e. Demonstrate knowledge of ways to identify and select appropriate textural and therapeutic diet modifications.</p>	<p>This PI is met through case studies, plus any other activities noted for individual PIs as relevant</p> <p>Dysphagia case study</p> <p>Dysphagia case study; final exam</p> <p>Case studies (including enteral and parenteral case studies), and midterm exam</p>

Performance Indicator	How PI is met in this curriculum
<p>3.02g. Demonstrate knowledge of principles for development and modification of meal plans.</p> <p>3.02i. Demonstrate knowledge of principles for supplement selection and use.</p> <p>3.02k. Demonstrate knowledge of principles of enteral nutrition.</p> <p>3.02l. Demonstrate knowledge of methods for designing enteral feeding regimens.</p> <p>3.02m. Calculate enteral nutrition regimen requirements.</p> <p>3.02n. Design enteral feeding regimes</p> <p>3.02o. Demonstrate knowledge of principles of parenteral nutrition.</p> <p>3.02p. Demonstrate knowledge of methods for designing parenteral feeding regimens.</p> <p>3.02q. Calculate parenteral nutrition regimen requirements.</p> <p>3.02r. Design parenteral feeding regimes</p> <p>3.02u. Demonstrate knowledge of principles for development of a client education plan.</p> <p>3.02w. Demonstrate knowledge of strategies for monitoring and assessment of nutrition care plan outcomes.</p> <p><i>3.03 Manage implementation of nutrition care plans.</i></p> <p>3.03a. Identify ways to implement nutrition interventions.</p> <p>3.03c. Identify the roles of team members in supporting the implementation of a care plan.</p> <p>3.03d. Identify strategies to communicate nutrition care plan with client, interprofessional team and relevant others.</p> <p><i>3.04 Evaluate and modify nutrition care plan as appropriate.</i></p> <p>3.04c. Identify necessary changes to nutrition care plan.</p>	<p>Medical chart note assignment</p> <p>Final exam</p>