OBJECTIVES:

Upon completion of this course the student will be:

- Aware of the extent of the various disease conditions studied and the ethnic groups most significantly affected and health promotion strategies being used to reduce the risk of developing the various conditions;
- Able to discuss what is being assayed in each clinical and/or laboratory test and use clinical and/or laboratory data to ascertain the need for medical nutrition therapy;
- Able to discuss the pathophysiology which is associated with various medical conditions and diseases that require medical nutrition therapy and use the information to write modified diets;
- Aware of the various Over-The-Counter (OTC) and prescribed medications and botanicals used in the treatment of various medical or disease conditions and know the potential food-drug and drug-drug interactions associated with each;
- Able to interrelate medical nutrition therapy with medical or disease conditions associated with:
  - Various parts (mouth, esophagus, stomach, small intestine, large intestine) of the gastrointestinal tract;
  - Accessory organs (liver, gallbladder, pancreas) of the gastrointestinal tract;
  - The cardiovascular system;
  - Hypermetabolic (cancer, trauma) conditions;
  - Selected other conditions requiring nutritional alterations
- Discuss strategies that can be used to promote understanding of diet components and need for dietary compliance
- Be able to define and utilize medical terminology related to conditions requiring dietary intervention.

PREREQUISITES:

According to the NMSU Bulletin the student taking HNFS 449 should have successfully completed Physiology, Biochemistry and a class in nutrition. Persons who have NOT taken
the prerequisites will have to study harder and get the relevant materials from the prerequisites in order to do well in Diet Therapy II. Persons taking the class with OR without the associated prerequisites must fill out and submit the Prerequisite Declaration survey form found under the Quizzes/Survey icon on the WebCT class home page before the last day to ADD a class. Submission of this declaration form indicates that you are aware that if you do not have the required prerequisites, you may have to study harder and may NOT get as good a grade as you might have gotten if you had all of the prerequisites.

top of page

TEXTS:

Applications in Medical Nutrition Therapy by Zeman and Ney (Z/N)
Modern Nutrition in Health and Disease (Shils et al.)
Mosby's Laboratory Diagnostics
Food and Drug Interactions
Handout Case Studies (HO) (See Learning Objects icon for Liver Case Study)
Other Learning Objects

Supplemental References on shelves in GT W311 Resource Center - Students are highly advised to get their own personal copy of:

-Guyton's Textbook of Medical Physiology
-Medical Dictionary

Students who are not physically at NMSU will need to contact the NMSU bookstore (505) 646-4431 and have the books sent. You could also check with Amazon.com to see if they can get them for you.

top of page

EXAMS:

Three (3) exams - 200 points each - Note: Exams will be derived from handouts, online presentations, class Chat Room discussions, learn objects, case study questions and comments on case study components. Exams will be given electronically via the WebCT exam modality. Most questions will be Multiple Choice; Matching and Short Answer. The exam will be available for a specified amount of time; you will have 2 hours to complete the exam once you start, therefore it is CRITICAL to start the exam at a point during the window of time the exam is available so that you have the full 2 hours to complete the test. Questions on the exam will be randomized for each student, thus no two students will get the questions in the same order and the answers may be shuffled. Each exam must be taken independently (alone) in a proctored environment. The proctor must insure that students have not worked together and that the exam has NOT been printed.

Missed Exam Policy

If you have an obligation the week of a given exam, you MUST make arrangements with the instructor related to completion of the exam. Persons with an unexcused absence will be required to take a COMPREHENSIVE Exam. The Comprehensive Exam will be used to replace the score(s) on all unexcused exams. Persons with an unexcused absence will lose 10 perentage points off of the percentage attained on the exam. Example: Achieve 93% on exam;
83% recorded in gradebook.

top of page

PROJECTS:

Complete projects as specified in each instruction sheet. Case Study must be posted by Saturday at midnight of the week the case is listed in the Class Schedule. Comments must be posted by noon of the Monday following the week the case is listed in the Class Schedule.

Late Project Policy

If submitted or posted by 5:00 pm on the day following due date - 10 % deduction. If submitted or posted the following day after 5:00 pm - 25 % deduction. Each additional day - less 1 % additional /day.

Project will be graded as outlined in instructions with each project.

Note: Percentages will continue to be deducted until a given project component or comment is submitted. Thus, it is possible to lose more points than the project is worth.

Project Participation Policy

To insure that each person participates equally, the instructor reserves the right to reduce the grade of the student or students who did not fully participate in accomplishment of the project. At a minimum, a student, for whom I have report(s) of non or minimal participation, will lose at least 10 percentage points from what was assigned to the group members who fully participated. For example, if a project receives a 93%, the person or persons who have not participated or participated minimally will receive 83% or lower depending on the degree of non participation.

top of page

CLASS FORMAT

This class is being taught via WebCT. A student centered teaching approach will be used. Therefore, the student will need to be very disciplined and keep up. The student should expect to spend a minimum of 12.5 to 15.5 hours a week on the class. Students should check the My WebCT page on a regular basis. At least once daily is HIGHLY recommended.

As the instructor, I will be facilitating the flow of the class, commenting on materials submitted, providing additional material and conducting formal chat sessions.

Basis for Approach Being Used - Many approaches are used in teaching. Within each approach, a number of techniques are utilized to facilitate the learning process. As noted above, a student oriented approach will be used in this class. Many ask why the class is taught via the web using such an approach. The bases for this approach include:

- Student's need for computer skills and practice to take the national ADA exam;
- To promote development of critical thinking skills;
- To promote analytical and synthesis skills;
- Increase in distance education based internships which are being increasingly chosen by
NMSU students;
- Increase in utilization of the web for employee inservices; patient education and dietetic consulting;
- Student's need for computer skills that are required for data collection and charting in increasing numbers of health care settings;
- Student's need for research and library skills for inservices and analysis of a medical condition before making recommendations; and
- Need for students to learn to work in teams which is a common approach being used in all kinds of employment settings.

**How the Class will Work** - The class will be divided into 4 groups. Each of the weeks that there are assigned cases (See Class Schedule), each group will research the assigned information (e.g., pathophysiology; medications; etc) that is required for the given medical condition and then post information under the assigned Presentation site. Each group will rotate through the following using the matrix that is posted under the Syllabus/Projects/Matrix icon on the class home page:

- Pathophysiology associated with a given medical condition;
- Clinical and laboratory diagnostics associated with identifying and/or treating a given medical condition;
- Medications (Prescribed and Over the Counter [OTC]) and botanicals utilized in the treatment of a given medical condition;
- Sample diet and diet analysis for a given medical condition and information that needs to be presented in the education of the patient related to the diet and suggested tools (e.g., food models; food guide pyramid; etc) for enhancing the learning process.

The assigned group will type the information using an HTML editor (e.g., Netscape Composer or Microsoft FrontPage). Information SHALL be documented in the text and the list of references used must be put at the end of the information submitted. Students should use APA referencing style in the text and for the reference list. A minimum of three references above and beyond the Zeman and Ney and Shils et al. textbooks MUST be included. Part of the grade for each group presentation will be for grammar and spelling. Information will be posted on the **assigned Presentation site** by the assigned group for a given condition. Remember the name of the file needs to be index.html or index.htm. If you have graphics (.gif or .jpg or .jpeg) associated with the presentation, then you need to remember to upload them at the same time you upload the index file to the assigned presentation site. Also, it is important to remember that graphics must be either .gif or .jpg files. Grade for a given group will NOT be on the posted presentation. Grade for a given group for a given week will be posted in the gradebook. (See Gradebook link). Unless you give your login ID and password to someone, only you will be able to view your grade. **STUDENTS SHOULD BE AWARE THAT SUBMITTED MATERIALS MAY BE POSTED ON THE HNFS PORTION OF THE DEPARTMENTAL WEB SITE FOR VIEWING BY ANYONE WHO IS INTERESTED.**

Each person in a given group will be given the grade earned for the project information posted unless there is a report of non or minimal participation. The policy delineated under Projects above will then be applied for those persons not participating or minimally participating.

**The instructor reserves the right to alter the make up of a given group, including assigning a single person to a group, at any point during the semester. If group structure is altered, such alterations will be posted on the Discussion Board. Altered assignments will also be posted on the Discussion Board.**
ACADEMIC MISCONDUCT:

The Student Handbook states that "Academic misconduct includes, but is not limited to...

1. Cheating or knowingly assisting another student in committing an act of cheating or other forms of academic dishonesty;
2. Plagiarism, which includes, but is not necessarily limited to, submitting examinations, themes, reports, drawings, laboratory notes, undocumented quotations, computer processed materials, or other material as one's own work when such work has been prepared by another person or copied from another person;
3. Unauthorized possession of examinations, reserve library materials, or laboratory materials;
4. Unauthorized changing of grades on an examination, in an instructor's grade book, or on a grade report; or unauthorized access to academic computer records;
5. Nondisclosure or misrepresentation in filing out applications or other University records in, or for, academic departments or colleges.

Potential consequences include:

1. Zero on exam or project involved.
2. Zero for the course.
3. Referral for disciplinary action.

QUESTIONS:

If you have questions related to a given project or exam, contact Dr. Bock. Dr. Bock can be reached at (505) 646-1178 or you can reach her via WebCT email. If WebCT email does not work, use: abock@nmsu.edu

CHALLENGED STUDENTS:

If a student needs special assistance to complete the requirements of this class, he or she must make that need known to the class instructor and provide documentation from the Services for Student's with Disabilities office indicating the kind of modifications needed.

GRADE COMPONENTS

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<th>Component (Col A)</th>
<th># of Components (Col B)</th>
<th>Points/Component (Col C)</th>
<th>Total Possible Points (B*C) = D</th>
<th>%age of Total Grade (D/1325) *100</th>
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<td>P2 - Home Page</td>
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<td>P4 - Grad Interview</td>
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<td>P5 - Practical</td>
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**Graduate**

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Group Grade Adjustments

Several of the grades (Projects 3a and b Scores) for this class will be for a group. Every member of the group will get the grade earned for a given exam or project. The total points achieved by a given person in the group will be subject to an adjustment based on reports of non or minimal participation. If the instructor gets reports of participation problems, then the person who is not or minimally participating will have at least 10 percentage points deducted from his or her grade. For example, if the group grade for a given project is 93%, then all participating members of the group will get 93% of the points possible; the non or minimal participator(s) will receive 83% of the possible points or lower depending on the degree of problems reported.

OVERALL GRADE for:

Undergraduate (HNFS 449)

>90% of total points A  
80-89% " " ...........B  
70-79% " " ............ C  
60-69% " " ............D  
<60% of total points F

Grades will NOT be curved. If taking the class for S/U, you must have 70% to get an S.

Graduate (HNFS 549)

>93% of total points....A  
83 to 92% " " ............B  
73 to 82% " " ............C  
63 to 72% " " ............D  
< 63%........................F

Grades will NOT be curved. If taking the class for S/U, you must have 83% to get an S.

top of page