Future Effective Date: Fall 2012  
(effective date cannot be retroactive)

☐ New course  ☐ Temporary course  ☐ Drop service course  
☐ There is a course fee associated with this course (see instructions)

☐ Variable credit ___________________________  
☑ Increase credit (former credit 3) ___________________________  
☐ Number (former number) ___________________________  
☐ Crosslisting (between WSU departments)  
(Must have both departmental signatures) ___________________________

☐ Conjoint listing (400/500) ___________________________  
☐ Request to meet Writing in the Major [M] requirement (Must have All-University Writing Committee Approval) ___________________________

☐ Request to meet GER in ________  
(Must have GenEd Committee Approval) ___________________________  
☐ Professional course (Pharmacy & Vet Med only) ___________________________  
☐ Graduate credit (professional programs only) ___________________________

☐ Other (please list request) ___________________________

NEP 537  
Advanced Medical Nutrition Therapy  

credit: 4  lecture hrs: 0  lab hrs: 4  studio hrs: 0  prerequisite: ___________________________

Description (20 words or less) Exercise and nutrition assessment/prescription and program management in rehabilitation for populations in various disease states.

Instructor: Maddy Houghton PhD  Phone number: 358-3622  Email: dellwo@wsu.edu  
Contact: Kay Meier PhD  Phone number: 358-9631  Email: kmeieri@wsu.edu  
Campus Zip Code: 1495

- Please attach rationale for your request, a current and complete syllabus, and explain how this impacts other units in Pullman and other branches (if applicable).  
- Secure all required signatures and provide 10 copies to the Registrar's Office.

Chair: ___________________________  Dean: ___________________________  General Education Com: ___________________________

Chair date: 12/15/11  Dean/date: 12/14/11  General Education Com/date: ___________________________

Chair (if crosslisted/interdisciplinary)*  Dean (if crosslisted/interdisciplinary)  *  Graduate Studies Com: ___________________________

Chair: ___________________________  Dean: ___________________________  Graduate Studies Com: ___________________________

Chair date: ___________________________  Dean/date: ___________________________  Graduate Studies Com/date: ___________________________

All-University Writing Com: ___________________________  Academic Affairs Com: ___________________________  Senate: ___________________________

*If the proposed change impacts or involves collaboration with other units, use the additional signature lines provided for each impacted unit and college.
Rationale:

NEP 537 is one of the courses in our new MS CPDNEP curriculum. In teaching the course for the first time in its graduate format, the instructor noted that the required material could not be covered in 3 credit hours. This course is key for providing students with the basis for their clinical training in dietetics, and covers a wide variety of material in detail. The course is typically a 4-credit course in other coordinated dietetics programs. The credit change will not adversely affect the students’ overall curriculum in this program. Therefore, we are requesting an increase from 3 to 4 credits. Thank you for your consideration of this request.

1-5-2011

Syllabus missing components
ld sent email to contact (Sarah Kennedy) requesting updated syllabus.
Washington State University Spokane
Program in Nutrition and Exercise Physiology

Course Logistics

**Course Title:** Advanced Medical Nutrition Therapy

**Course Number:** NEP 537

**Academic Hours** (Lecture–Lab–Total): 4-0-4

**Class times:** M & W – 2:30 – 4:20 pm

**Prerequisite(s):** Graduate status or permission of the instructor

**Course Description:** Exercise and nutrition assessment/prescription and program management in rehabilitation for populations in various disease states.

**Course Objectives:**

1. Understand the application of nutrition principles to current practice of clinical nutrition in all areas of medical nutrition therapy.
2. Incorporate nutrition into the medical history, review of systems, and physical examination of patients with chronic diseases.
3. Examine available feeding options and their indications for patients with specific diseases and the risks associated with nutritional support in these diseases.
4. Describe the various nutritional assessment tools available to the dietitian for each disease state.
5. Understand the pathophysiology of nutrition-related disease states.
6. After enteral formula review, students will be able to compare and contrast the nutritional content as well as the indications and contraindications of various Abbott and Nestle enteral nutrition products. Students will be able to develop clinical judgement and apply appropriate enteral product to various disease states when doing case studies.
7. After evidenced-based review of literature, students will become familiar with nutrition support guidelines for critical illness, understand methodology of review from evidenced-grading and present via power point and/or via oral presentation.
8. Students will recognize and apply pharmaceuticals and get a brief understanding of pharmacology and the nutrient-drug interactions for several co-morbidities.

**Instructor of Record:**

Madeline Dellwo Houghton, PhD, RD

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Office: 325 N Health Sciences Building</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Phone: 358-7622</td>
</tr>
<tr>
<td></td>
<td>Email: <a href="mailto:dellwo@wsu.edu">dellwo@wsu.edu</a></td>
</tr>
</tbody>
</table>

**Semester:** Fall

**Required and Optional Textbooks, References and other resources**

**Required Texts:**

### Topic Outline

**LECTURE**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
</tr>
</thead>
</table>
| 1/9  | Introductions/Syllabus  
             Trends in Clinical Dietetics  
             Medical Terminology |
| 1/11 | The Nutrition Care Process  
             PES Statements; ADIME Charting |
| 1/18 | Fluid and Electrolyte Balance  
             Acid/Base Balance  
             Medical Terminology Quiz 1 |
| 1/23 | Nutrition Support - Tube Feeding  
             Medical Terminology Quiz 2 |
| 1/25 | Tube Feeding cont’d – Practice Problems  
             Do the TF web site tutorial: www.csun.edu/~cjh78264/tubefeeding  
             Medical Terminology Quiz 3 |
| 1/30 | Nutrition Support: Total Parenteral Nutrition (TPN)  
             Nutrition Support Practice Problems Assignment  
             TPN Web site tutorials: www.csun.edu/~cjh78264/parenteral  
             Medical Terminology Quiz 4 |
2/1 Refeeding Syndrome
Medical Terminology Quiz 5

2/6 Review Nutrition Support
Assessing Kcal Needs: Practice Problems

2/8 EXAM

2/13 Food and Drug Interactions
Pharmacology
Medical Terminology Quiz 6

2/15 Practice Charting in the Medical Records: ADIME notes
Upper Gastrointestinal Tract
IDNT Book
Krause's Ch. 26

2/22 Upper GI System
Medical Terminology Quiz 7

2/27 Lower GI
Medical Terminology Quiz 8
Krause's Ch. 27

2/29 Lower GI
Discuss Celiac Disease – Case Study
Case Study 12

3/5 Liver and Pancreatic Disease
Krause's Ch 28
FIRST 4 ARTICLES OF ANNOTATED BIBLIOGRAPHY DUE
(Articles should be only on topics we have already covered in class)

3/7 EXAM
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/19</td>
<td>Metabolic Stress: Sepsis, Burns, Head Injury</td>
<td>Krause’s Ch 39</td>
</tr>
<tr>
<td>3/21</td>
<td>Intro: Diabetes Mellitis</td>
<td>Krause’s Ch. 30</td>
</tr>
<tr>
<td>3/26</td>
<td>Discuss Head Injury Case study</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diabetes Mellitis – cont’d</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Diabetes Mellitis Web site tutorial:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><a href="http://www.csun.edu/~cjh78264/diabetes">www.csun.edu/~cjh78264/diabetes</a></td>
<td></td>
</tr>
<tr>
<td>3/28</td>
<td>Student Research Presentations</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Medical Terminology Quiz 9</td>
<td></td>
</tr>
<tr>
<td>4/2</td>
<td>Intro to Renal Disease</td>
<td>Krause’s Ch. 36</td>
</tr>
<tr>
<td></td>
<td>Medical Terminology Quiz 10</td>
<td></td>
</tr>
<tr>
<td>4/4</td>
<td>Student Research Presentations</td>
<td></td>
</tr>
<tr>
<td>4/9</td>
<td>Discuss Renal Disease Case Study</td>
<td>Case Study 26</td>
</tr>
<tr>
<td>4/11</td>
<td>Pulmonary Disease</td>
<td>Krause’s Ch 35</td>
</tr>
<tr>
<td>4/16</td>
<td>EXAM</td>
<td></td>
</tr>
<tr>
<td>4/18</td>
<td>Neurologic Disorders</td>
<td>Krause’s Ch. 41</td>
</tr>
<tr>
<td></td>
<td>Dysphagia diets</td>
<td></td>
</tr>
<tr>
<td>4/23</td>
<td>Cancer</td>
<td>Krause’s Ch. 37</td>
</tr>
</tbody>
</table>
Second 4 Articles of Annotated Bibliography Due
(Only on topics covered the last half of the semester)

4/25
Lymphoma Case Study discussed
Student Research Presentations

4/30
FINAL EXAM

**Expectations of students**

Students will be expected to:

1. Bring your textbook and a calculator to class.
2. Attendance in class is required unless prior arrangements have been discussed with the instructor.
3. Participation and engagement: Your participation will be evaluated on the basis of the following: class attendance, tardiness/leaving early, active engagement in class including participating in case study discussions, raising and responding to questions, completion of in-class activities, worksheets, quizzes, exams, etc., contribution to group discussions.
4. All assignments are expected to be original work with all references cited. Unless specified otherwise, all assignments should be typed, with differentiation in format from the questions compared to the answers. Please number your pages. Please proof-read your assignments before you hand them in. Points will be deducted for assignments that have not been proof-read. You may use lay literature like Wikipedia for initial background reading, but please do not use it or cite it as a primary reference in your work. Grades for late assignments are reduced 10% for every late day.
5. Case Studies: Students will complete 5 case studies throughout the semester.
6. Annotated Bibliographies: See attached handout for details.
7. Research Paper & Presentation Assignment: You will choose a research topic related to MNT that you will investigate. An 8-page, double spaced, literature review will be written. Find a minimum of 10 references, no older than 2002. These will be listed on your reference page. Use APA format. You will then give a brief, 20 minute presentation to present your research topic. Please make hand-outs of your power-point for class members. (See attached page for more description/rubric).
8. Medical Terminology Quizzes: Students will be given a quiz each week where they need to define and/or identify 10 medical terms or acronyms.
9. Nutrition Support Practice Questions: Students will be given 10 practice questions regarding calculations of tube feeding and parenteral nutrition under different scenarios with patients and must show appropriate application for the nutrition care process.
10. Methodology: Lectures, group discussions, multimedia presentations, practical problem solving in the class/lecture.
11. Class may be held at other than scheduled times and at other locations. You are expected to be in class when this occurs. You will be given at least 1 week notice.
12. Grades for late assignments are reduced 10% for every late day. Assignments are to be typed. Poorly prepared papers will be returned.
## Course Grading Criteria and Grading Scale

<table>
<thead>
<tr>
<th>Grading Criteria</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Exams</td>
<td>300</td>
</tr>
<tr>
<td>Literature Review</td>
<td>75</td>
</tr>
<tr>
<td>Research Presentation</td>
<td>25</td>
</tr>
<tr>
<td>Annotated Bibliography</td>
<td>40</td>
</tr>
<tr>
<td>Case Study Workbook</td>
<td>100</td>
</tr>
<tr>
<td>Medical Terminology Quizzes</td>
<td>100</td>
</tr>
<tr>
<td>Nutrition Support Assignment</td>
<td>10</td>
</tr>
<tr>
<td>Participation</td>
<td>10</td>
</tr>
<tr>
<td><strong>Final Exam</strong></td>
<td><strong>100</strong></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>755</strong></td>
</tr>
</tbody>
</table>

### Grading Scale:

- **A** = 93-100%
- **A-** = 90-92%
- **B+** = 87-89%
- **B** = 83-86%
- **B-** = 80-82%
- **C+** = 77-79%
- **C** = 73-76%
- **C-** = 70-72%
- **D+** = 67-69%
- **D** = 60-66%
- **F** = < 60%

### Additional Comments

**Students with Disabilities:** Reasonable accommodations are available for students with a documented disability. If you have a disability and may need accommodations to fully participate in this class, please visit the Student Affairs office (SAC 130) and meet with Liz West (weste@wsu.edu or 358-7534)

**Academic Dishonesty:** Cheating on exams or plagiarism of any assigned coursework will result in an automatic 0 for the exam/assignment for the first offense. A second offense will result in a failing grade for the course. The WSU Spokane Standards of Conduct for Students is listed in the online Student Handbook: [http://www.spokane.wsu.edu/students/current/studentaffairs/StudentHandbook09.pdf](http://www.spokane.wsu.edu/students/current/studentaffairs/StudentHandbook09.pdf). Cases of academic dishonesty shall be processed in accordance with the Academic Integrity Policy, as printed in the Student Handbook, the Faculty Manual and as available from the Office of Student Affairs.
This course covers the following CADE Eligibility Requirements and Accreditation Standards (ERAS):

<table>
<thead>
<tr>
<th>Knowledge Requirement</th>
<th>ERAS Number &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KR 1.1</td>
<td>The curriculum must reflect the scientific basis of the dietetics profession and must include research methodology, interpretation of research literature and integration of research principles into evidence-based practice. Examples of evidence-based guidelines and protocols include the ADA Evidence Analysis Library and Evidence-based Nutrition Practice Guidelines, The Cochrane Data based of Systematic Reviews and the U.S. Department of health and Human Services, Agency for Healthcare Research and Quality, National Guideline Clearing house Web sites.</td>
</tr>
<tr>
<td>KR 3.1</td>
<td>The curriculum must reflect the nutrition care process and include the principles and methods of assessment, diagnosis, identification and implementation of interventions and strategies for monitoring and evaluation.</td>
</tr>
</tbody>
</table>

Support Knowledge: Knowledge underlying the requirements above.

<table>
<thead>
<tr>
<th>Support Knowledge:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SK 5.2</td>
<td>The physical and biological science foundation of the dietetics profession must be evident in the curriculum. Course content must include organic chemistry, biochemistry, physiology, genetics, microbiology, pharmacology, statistics, nutrient metabolism and nutrition across the lifespan.</td>
</tr>
</tbody>
</table>

This course is a secondary course for covering the following American College of Sports Medicine's Registered Clinical Exercise Physiologist® Knowledge, Skills, and Abilities (KSAs).

<table>
<thead>
<tr>
<th>KSA Number</th>
<th>KSA Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PULMONARY (e.g., OBSTRUCTIVE AND RESTRICTIVE LUNG DISEASES): EXERCISE PHYSIOLOGY AND RELATED EXERCISE SCIENCE</td>
<td></td>
</tr>
<tr>
<td>3.1.3</td>
<td>Explain how scheduling of exercise relative to meals can affect dyspnea.</td>
</tr>
<tr>
<td>ORTHOPEDIC/MUSCULOSKELETAL: PATHOPHYSIOLOGY AND RISK FACTORS</td>
<td></td>
</tr>
<tr>
<td>5.2.1</td>
<td>Describe the epidemiology, pathophysiology, risk factors, and key clinical findings of orthopedic/musculoskeletal diseases.</td>
</tr>
<tr>
<td>ORTHOPEDIC/MUSCULOSKELETAL: MEDICAL AND SURGICAL MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>5.6.1</td>
<td>List the commonly used drugs (generic and brand names) in the treatment of individuals with orthopedic/musculoskeletal diseases, and explain the indications, mechanisms of actions, major side effects, and the effects on the exercising individual.</td>
</tr>
<tr>
<td>5.6.3</td>
<td>Apply key recommendations of current U.S. clinical practice guidelines (e.g., NIH, National Osteoporosis Foundation, Arthritis Foundation) for the prevention, treatment, and management of orthopedic/musculoskeletal diseases.</td>
</tr>
<tr>
<td>5.6.4</td>
<td>Explain how treatments for orthopedic/musculoskeletal disease may affect the rate of progression of disease.</td>
</tr>
<tr>
<td>NEUROMUSCULAR: PATHOPHYSIOLOGY AND RISK FACTORS</td>
<td></td>
</tr>
<tr>
<td>6.2.1</td>
<td>Describe the epidemiology, pathophysiology, risk factors, and key clinical findings of neuromuscular diseases.</td>
</tr>
<tr>
<td>NEUROMUSCULAR: MEDICAL AND SURGICAL MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>6.6.1</td>
<td>Explain the common medical and surgical treatments of neuromuscular diseases.</td>
</tr>
<tr>
<td>6.6.2</td>
<td>List the commonly used drugs (generic and brand names) in the treatment of individuals with neuromuscular disease, and explain the indications, mechanisms of actions, major side effects, and the effects on the exercising individual.</td>
</tr>
<tr>
<td>6.6.3</td>
<td>Apply key recommendations of current U.S. clinical practice guidelines (e.g., NIH) for the prevention, treatment, and management of neuromuscular diseases.</td>
</tr>
<tr>
<td>6.6.4</td>
<td>Explain how treatments for neuromuscular disease may affect the rate of progression of disease.</td>
</tr>
</tbody>
</table>

NEOPLASTIC, IMMUNOLOGIC, AND HEMATOLOGIC: PATHOPHYSIOLOGY AND RISK FACTORS

| 7.2.1 | Describe the epidemiology, pathophysiology, risk factors, and key clinical findings of NIH diseases. |

NEOPLASTIC, IMMUNOLOGIC, AND HEMATOLOGIC: HEALTH APPRAISAL, FITNESS, AND CLINICAL EXERCISE TESTING

| 7.3.2 | Describe common techniques and tests used to diagnose NIH diseases. |
| 7.3.3 | Conduct and interpret appropriate exercise testing methods for individuals with NIH diseases. |

NEOPLASTIC, IMMUNOLOGIC, AND HEMATOLOGIC: MEDICAL AND SURGICAL MANAGEMENT

| 7.6.1 | List the commonly used drugs (generic and brand names) in the treatment of individuals with NIH disease, and explain the indications, mechanisms of actions, major side effects, and the effects on the exercising individual. |
| 7.6.2 | Apply key recommendations of current U.S. clinical practice guidelines (e.g., ACS, NIH) for the prevention, treatment, and management of NIH diseases. |
| 7.6.3 | Explain the common medical and surgical treatments of NIH diseases. |
| 7.6.4 | Explain how treatments for NIH disease may affect the rate of progression of disease. |
Schmidtlein, Barb

From: Devine, Lisa
Sent: Thursday, January 05, 2012 4:47 PM
To: Schmidtlein, Barb
Subject: FW: NEP537 credit change status

Barb, here is what I sent on the NEP 537.

Lisa

From: Devine, Lisa
Sent: Thursday, January 05, 2012 4:48 PM
To: Kennedy, Saren M
Cc: Meier, Kathryn
Subject: FW: NEP537 credit change status

Saren, we just received the request on December 16th, so there is no way it will be approved for Spring 2012. Also, we noticed that the syllabus is missing the disability statement, the safety statement and the integrity statement that is required on all syllabi. Is there a way you can communicate this to the instructor and get a us revised syllabus?

Lisa

From: Kennedy, Saren M
Sent: Thursday, January 05, 2012 3:28 PM
To: Devine, Lisa
Cc: Houghton, Madeline Dellwo; Meier, Kathryn
Subject: NEP537 credit change status

Hi Lisa,

Could you please let me know the status regarding changing NEP537-Advanced Medical Nutrition Therapy from 3 credits to 4 credits? The instructor Maddy Houghton (copied) was inquiring if it was done in time for Spring 2012 semester or not.

Thanks,

Saren

WASHINGTON STATE UNIVERSITY
SPOKANE

Saren Kennedy  
Nutrition and Exercise Physiology - College of Pharmacy
Health Sciences Building, Suite 325N  
P.O. Box 1495
Spokane, WA 99210-1495

Phone: (509) 358-7630 Fax: (509) 358-7627

saren@wsu.edu

"When your work speaks for itself, don't interrupt."
I think I sent this without the attachment. Sorry about that.
Maddy

From: Houghton, Madeline Dellwo
Sent: Thursday, January 12, 2012 11:53 AM
To: Devine, Lisa
Cc: Meier, Kathryn
Subject: NEP537 credit change

Hi Lisa,

I've attached the revised syllabus for NEP 537 Advanced Medical Nutrition Therapy, including disability statement, etc. I'm sorry I forgot to include those before. I would like to change this course from 3 credits to 4 credits. Please let me know if there is anything else you need from me.

Thank you for your help.

Maddy Houghton
NEP
358-7622
dellwo@wsu.edu
Course Logistics

Course Title: Advanced Medical Nutrition Therapy

Course Number: NEP 537

Academic Hours (Lecture–Lab–Total): 4 – 0 – 4

Class times: M & W – 2:30 – 4:10 pm

Prerequisite(s): Accepted into the Master’s CPD

Course Communication:

WSU Spokane uses the Angel LMS (Learning Management System). If you have not used Angel before, please take a few minutes to become familiar with the system prior to the start of the semester. There is a short student orientation video on Angel at:

http://angel.wsu.edu/Tutorials/STudentOrientation/STUDENTORIENTATION.html

How do I access Angel?
1. Go to lms.wsu.edu
2. Log in with your WSU Network ID and Password

Where can I find more information on Angel?
- Inside Angel, look for the question mark button on the left hand edge “powerstrip.”
- Visit http://angel.wsu.edu/ for additional help.

Course Description: This course provides a theoretical and practical base for diet modification & nutritional therapy in health and in a variety of disease states. Case studies will be used in the classroom.

Course Objectives:

1. Understand the application of nutrition principles to current practice of clinical nutrition in all areas of medical nutrition therapy.
2. Incorporate nutrition into the medical history, review of systems, and physical examination of patients with chronic diseases.
3. Examine available feeding options and their indications for patients with specific diseases and the risks associated with nutritional support in these diseases.
4. Describe the various nutritional assessment tools available to the dietician for each disease state.
5. Understand the pathophysiology of nutrition-related disease states.
6. After enteral formula review, students will be able to compare and contrast the nutritional content as well as the indications and contraindications of various Abbott and Nestle enteral nutrition products. Students will be able to develop clinical judgement and apply appropriate enteral product to various disease states when doing case studies.
7. After evidenced-based review of literature, students will become familiar with nutrition support guidelines for critical illness; understand methodology of review from evidenced-grading and present via power point and/or via oral presentation.
8. Students will recognize and apply pharmaceuticals and get a brief understanding of pharmacology and the nutrient-drug interactions for several co-morbidities.
Instructor of Record:
Madeline Dellwo Houghton, PhD, RD
Instructor
Office: 325 N Health Sciences Building
Phone: 358-7622
Email: dellwo@wsu.edu

Semester: Fall

Required and Optional Textbooks, References and other resources

Required Texts:
- Medical Dictionary of choice.

Topic Outline

LECTURE

1/9
Introductions/Syllabus
Trends in Clinical Dietetics
Medical Terminology

1/11
The Nutrition Care Process:
PES Statements; ADIME Charting
Krause’s Ch 17
IDNT Book

1/18
Fluid and Electrolyte Balance
Acid/Base Balance
Medical Terminology Quiz 1

1/23
Nutrition Support - Tube Feeding
Krause’s Ch. 20

1/25
Tube Feeding cont’d – Practice Problems
Do the TF web site tutorial:
Medical Terminology Quiz 3

1/30 Nutrition Support: Total Parenteral Nutrition (TPN)
Nutrition Support Practice Problems Assignment
TPN Web site tutorials:
www.csun.edu/~cjh78264/parenteral
Medical Terminology Quiz 4

2/1 Refeeding Syndrome
Medical Terminology Quiz 5

2/6 Review Nutrition Support
Assessing Kcal Needs: Practice Problems

2/8 EXAM

2/13 Food and Drug Interactions
Pharmacology
Medical Terminology Quiz 6

2/15 Practice Charting in the Medical Records: ADIME notes
Upper Gastrointestinal Tract
IDNT Book
Krause's Ch. 26

2/22 Upper GI System
Medical Terminology Quiz 7

2/27 Lower GI
Medical Terminology Quiz 8

2/29 Lower GI
Discuss Celiac Disease – Case Study

3/5 Liver and Pancreatic Disease
Krause's Ch 28

FIRST 4 ARTICLES OF ANNOTATED BIBLIOGRAPHY DUE
(Articles should be only on topics we have already covered in class)

3/7 EXAM

3/19 Pancreatic and Gall Bladder Disease

3/21 Metabolic Stress: Sepsis, Burns, Head Injury
Krause's Ch 39

3/26 Intro: Diabetes Mellitus
Krause's Ch. 30
Discuss Head Injury Case study
Diabetes Mellitus Web site tutorial:
www.csun.edu/~cjh78264/diabetes

3/28 Diabetes, cont'd
Medical Terminology Quiz 9

4/2 Intro to Renal Disease
Krause's Ch. 36
Medical Terminology Quiz 10

4/4 Renal Disease, cont'
Discuss Renal Disease Case Study
Case Study 26

4/9 EXAM
4/11 Pulmonary Disease Krause's Ch 35

4/16 Neurologic Disorders Krause's Ch. 41
Dysphagia Diets

4/18 Cancer Krause's Ch. 37

Second 4 Articles of Annotated Bibliography Due
(Only on topics covered the last half of the semester)

4/23 No Class: WSDA Conference in Vancouver, WA. You are strongly encouraged to attend.

4/25 Lymphoma Case Study discussed Case Study 31
Nutritional Genomics

Literature Review Papers Due

4/30 FINAL EXAM

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Course Expectations

INDIVIDUAL AND GROUP WORK guidelines:

Assignments, examinations, and other assessments in this course include both individual and group work. UNLESS otherwise stated in the instructions for the individual assignment or examination, ALL assigned work will be INDIVIDUAL work.

"Individual work" means that the student may not obtain assistance from any other person in completion of the assignment or examination. Individual assignments or examinations will specify the types of resources that may be used. The following descriptors specify those resources allowable for completing an assignment or examination.

- "Writing Center assistance allowed" means that an individual written assignment may be taken to the WSU Writing Center for guidance in improving the student's writing skills. The Writing Center
staff will not assist the student in researching the paper, but may provide feedback to the student on areas needing improvement.

- "Closed book" means that the student may only use the resources made available to the student by the instructor within that assignment, and includes a prohibition against use of computers, PDAs, internet access, notes, or other sources.
- "Open book" means that the student may use the assigned textbook, notes taken in class, class handouts, and similar resources in completing the assignment or examination. "Open book" does not include use of e-resources.
- "e-resources allowed" means that students may use computers, PDAs, internet access or other forms of electronic resources, but does not include consulting with another person in the completion of the work.

"Group Work" means that the student is expected to complete the specified portion of the assignment or examination in collaboration with other members of his or her assigned group. It is expected that all students will participate fully in the group activities. Assessment of group work may, as the instructor's prerogative, include assessment of the degree of each member's contribution to the total group effort, which may be made by the instructor and/or peers.

**Academic Honesty, Conduct, and Behavior**

**Student Conduct Code and Standards of Professionalism**

The WSU Standards of Conduct for Students (Student Conduct Code) is in the WSU Spokane 2010-2011 Student Handbook, and also at [www.conduct.wsu.edu/default.asp?PageID=338 (Chapter 504-26 WAC)]. Any violation of the Student Conduct Code is a disciplinary issue and is within the jurisdiction of the Office of Student Conduct. As such, the Conduct officers or Conduct Board make decisions on sanctions for violations of the code.

With respect to conduct that violates the program's standards of professionalism (see below), the decision to place students on probation or dismiss them from the NEP BS degree shall be made by the Program Director, in consultation with NEP faculty. A student will be notified in writing if he or she has been placed on probationary status or dismissed and will be provided an opportunity to appeal the decision (see below).

**Voluntary Student Resignation**

1. **Resignation:** If it becomes necessary to resign, the student will submit a signed letter of resignation to the Program Director. Refer to the guidelines as outlined in the WSU Spokane Student Handbook.

2. **Reapplication:** Students who are dismissed may not reapply for admission to the NEP BS degree. Students who resign for personal reasons may reapply and be considered on an equal basis with new applicants.

**Grievance Procedures**

Appeal procedures for students who have been sanctioned under the WSU Student Conduct Code are set forth in the Student Conduct Code, WAC 504-26-407 found at http://apps.leg.wa.gov/WAC/default.aspx?cite=504-26-407.

If a student is placed on probation or dismissed from the NEP BS degree for academic reasons, including violation(s) of the standards of professionalism, the student may appeal the written decision of the Director to the Dean within twenty (20) business days in accordance with the Academic Complaint Procedures (Regulation 104) set forth in the WSU Spokane Student Handbook.

It is the responsibility of students and faculty to promote academic integrity and intellectual honesty. All assignments should demonstrate independent effort and thought unless otherwise instructed. Evidence of cheating, copying of homework, working as a group on an independent assignment, plagiarism or not citing references properly will result in a conference with the instructor. The possible consequences of
breaching academic integrity include the following: failing grade on the quiz or assignment, a full letter grade drop for the course or a failing grade in the course. The student will also be referred immediately to the Program Director and/or the WSU Office of Student Conduct.

### Course Evaluations

Student evaluations of courses/course modules and faculty effectiveness are a valuable and important component of the College’s commitment to provide quality learning experiences and contribute to our efforts to assure that students achieve the objectives of our professional degree program. Thus, all evaluations are given serious consideration as part of the assessment process and are read first by the Department Chair before they are processed, analyzed, and given to the faculty. Because the most effective way to impact positive changes is through constructive comments, we encourage you to provide feedback as you would wish to receive it. This will allow the faculty member to focus on improvements or affirm students’ perspective on effective elements of the course.

### Students with Disabilities Statement

All students requesting reasonable accommodation must meet with the instructor prior to or during the first week of the course to review all proposed accommodations in relation to course content and requirements. Please note that written evaluations can be accommodated but performance evaluations are considered analogous to job performance, therefore expectations will not be adjusted.

**WSU Spokane Disabilities Language**

**Students with Disabilities**: Reasonable accommodations are available for students with a documented disability. If you have a disability and may need accommodations to fully participate in this class, please contact Liz West, Assistant Director of Student Affairs, in Academic Center 130 (weste@wsu.edu or 509-358-7534). Read more: http://spokane.wsu.edu/students/current/studentaffairs/disabilitystatement.html#ixzz0wEGRXYyu

### Campus Safety

The WSU Campus Safety Plan, which can be found at http://safetyplan.wsu.edu, contains a comprehensive listing of university policies, procedures, statistics, and information relating to campus safety, emergency management, and the health and welfare of the campus community. Please visit this web site as well as the University emergency management web site at http://oem.wsu.edu/Emergencies to become familiar with the campus safety and emergency information provided. Everyone should also become familiar with the WSU ALERT site (http://alert.wsu.edu) where information about emergencies and other issues affecting WSU will be found. This site also provides information on the communication resources WSU will use to provide warning and notification during emergencies. It should be bookmarked on computers. Finally, please go to the myWSU portal at http://my.wsu.edu and register your emergency contact information for the Crisis Communication System (CCS). Enter your network ID and password and you will be taken to the myWSU main webpage. Look for the Emergency Notification box on the right side of the page and click on Register to be taken to the registration page where you can enter your cell, landline, and email contact information.

### Expectations of students

Students will be expected to:

1. Bring your calculator to class.
2. Attendance in class is required unless prior arrangements have been discussed with the instructor.
3. Participation and engagement: Your participation will be evaluated on the basis of the following:
class attendance, tardiness/leaving early, active engagement in class including participating in
case study discussions, raising and responding to questions, completion of in-class activities,
worksheets, quizzes, exams, etc, contribution to group discussions.
4. All assignments are expected to be original work with all references cited. Unless specified
otherwise, all assignments should be typed, with differentiation in format from the questions
compared to the answers. Please number your pages. Please proof-read your assignments
before you hand them in. Points will be deducted for assignments that have not been proof-read.
You may use lay literature like Wikipedia for initial background reading, but please do not use it or
cite it as a primary reference in your work. Grades for late assignments are reduced 10% for
every late day.
5. Case Studies: Students will complete 3 case studies throughout the semester. Bring your case
study answers to class on the days of discussion.
6. Annotated Bibliographies: See attached handout for details.
7. Research Paper: You will choose a research topic related to MNT that you will investigate. A 6-
page, double spaced, literature review will be written. Find a minimum of 8 references, no older
than 2002. These will be listed on your reference page. Use APA format. (More details and
grading rubric to follow).
8. Medical Terminology Quizzes: Students will be given a quiz each week where they need to define
and/or identify 5 medical terms or acronyms. A total of 10 quizzes will be given @ 5 pts each.
9. Nutrition Support Practice Questions: Students will be given 10 practice questions regarding
calculations of tube feeding and parenteral nutrition under different scenarios with patients and
must show appropriate application for the nutrition care process.
10. Methodology: Lectures, group discussions, multimedia presentations, practical problem solving
in the class/lecture.
11. Class may be held at other than scheduled times and at other locations. You are expected to be in
class when this occurs. You will be given at least 1 week notice.
12. Grades for late assignments are reduced 10% for every late day. Assignments are to be typed.
Poorly prepared papers will be returned.
13. As part of your professional development, you are expected to attend GSDA meetings. If
possible, please try to attend the WSDA meeting in April.

Course Grading Criteria and Grading Scale

<table>
<thead>
<tr>
<th>Grading Criteria</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Exams</td>
<td>300</td>
</tr>
<tr>
<td>Literature Review</td>
<td>75</td>
</tr>
<tr>
<td>Annotated Bibliography</td>
<td>40</td>
</tr>
<tr>
<td>Case Study Workbook</td>
<td>60</td>
</tr>
<tr>
<td>Medical Terminology Quizzes</td>
<td>50</td>
</tr>
<tr>
<td>Nutrition Support Assignment</td>
<td>10</td>
</tr>
<tr>
<td>Participation</td>
<td>10</td>
</tr>
<tr>
<td>Final Exam</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>645</strong></td>
</tr>
</tbody>
</table>

Grading Scale:
- A = 93-100%
- A- = 90-92%
- B+ = 87-89%
- C = 73-76%
- C- = 70-72%
- D+ = 67-69%
B  = 83-86%       D  = 60-66%
B- = 80-82%       F  = < 60%
C+ = 77-79%

**Additional Comments**

Students with Disabilities: Reasonable accommodations are available for students with a documented disability. If you have a disability and may need accommodations to fully participate in this class, please visit the Student Affairs office (SAC 130) and meet with Liz West (weste@wsu.edu or 358-7534)

Academic Dishonesty: Cheating on exams or plagiarism of any assigned coursework will result in an automatic 0 for the exam/assignment for the first offense. A second offense will result in a failing grade for the course. The WSU Spokane Standards of Conduct for Students is listed in the online Student Handbook: http://www.spokane.wsu.edu/students/current/studentaffairs/StudentHandbook09.pdf. Cases of academic dishonesty shall be processed in accordance with the Academic Integrity Policy, as printed in the Student Handbook, the Faculty Manual and as available from the Office of Student Affairs.
This course covers the following CADE Eligibility Requirements and Accreditation Standards (ERAS):

<table>
<thead>
<tr>
<th>Knowledge Requirement</th>
<th>ERAS Number &amp; Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>KR 1.1</td>
<td>The curriculum must reflect the scientific basis of the dietetics profession and must include research methodology, interpretation of research literature and integration of research principles into evidence-based practice. Examples of evidence-based guidelines and protocols include the ADA Evidence Analysis Library and Evidence-based Nutrition Practice Guidelines, The Cochrane Data based of Systematic Reviews and the U.S. Department of health and Human Services, Agency for Healthcare Research and Quality, National Guideline Clearing house Web sites.</td>
</tr>
<tr>
<td>KR 3.1</td>
<td>The curriculum must reflect the nutrition care process and include the principles and methods of assessment, diagnosis, identification and implementation of interventions and strategies for monitoring and evaluation.</td>
</tr>
<tr>
<td>Support Knowledge:</td>
<td>Knowledge underlying the requirements above.</td>
</tr>
<tr>
<td>SK 5.2</td>
<td>The physical and biological science foundation of the dietetics profession must be evident in the curriculum. Course content must include organic chemistry, biochemistry, physiology, genetics, microbiology, pharmacology, statistics, nutrient metabolism and nutrition across the lifespan.</td>
</tr>
</tbody>
</table>

This course is a secondary course for covering the following American College of Sports Medicine's Registered Clinical Exercise Physiologist® Knowledge, Skills, and Abilities (KSAs).

<table>
<thead>
<tr>
<th>KSA Number</th>
<th>KSA Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PULMONARY (e.g., OBSTRUCTIVE AND RESTRICTIVE LUNG DISEASES): EXERCISE PHYSIOLOGY AND RELATED EXERCISE SCIENCE</td>
<td></td>
</tr>
<tr>
<td>3.1.3</td>
<td>Explain how scheduling of exercise relative to meals can affect dyspnea.</td>
</tr>
<tr>
<td>ORTHOPEDIC/MUSCULOSKELETAL: PATHOPHYSIOLOGY AND RISK FACTORS</td>
<td></td>
</tr>
<tr>
<td>5.2.1</td>
<td>Describe the epidemiology, pathophysiology, risk factors, and key clinical findings of orthopedic/musculoskeletal diseases.</td>
</tr>
<tr>
<td>ORTHOPEDIC/MUSCULOSKELETAL: MEDICAL AND SURGICAL MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>5.6.1</td>
<td>List the commonly used drugs (generic and brand names) in the treatment of individuals with orthopedic/musculoskeletal diseases, and explain the indications, mechanisms of actions, major side effects, and the effects on the exercising individual.</td>
</tr>
<tr>
<td>5.6.3</td>
<td>Apply key recommendations of current U.S. clinical practice guidelines (e.g., NIH, National Osteoporosis Foundation, Arthritis Foundation) for the prevention, treatment, and management of orthopedic/musculoskeletal diseases.</td>
</tr>
<tr>
<td>5.6.4</td>
<td>Explain how treatments for orthopedic/musculoskeletal disease may affect the rate of progression of disease.</td>
</tr>
<tr>
<td>NEUROMUSCULAR: PATHOPHYSIOLOGY AND RISK FACTORS</td>
<td></td>
</tr>
<tr>
<td>6.2.1</td>
<td>Describe the epidemiology, pathophysiology, risk factors, and key clinical findings of neuromuscular diseases.</td>
</tr>
<tr>
<td>NEUROMUSCULAR: MEDICAL AND SURGICAL MANAGEMENT</td>
<td></td>
</tr>
<tr>
<td>6.6.1</td>
<td>Explain the common medical and surgical treatments of neuromuscular diseases.</td>
</tr>
<tr>
<td>6.6.2</td>
<td>List the commonly used drugs (generic and brand names) in the treatment of individuals with neuromuscular disease, and explain the indications, mechanisms of actions, major side effects, and the effects on the exercising individual.</td>
</tr>
<tr>
<td>6.6.3</td>
<td>Apply key recommendations of current U.S. clinical practice guidelines (e.g., NIH) for the prevention, treatment, and management of neuromuscular diseases.</td>
</tr>
<tr>
<td>6.6.4</td>
<td>Explain how treatments for neuromuscular disease may affect the rate of progression of disease.</td>
</tr>
</tbody>
</table>

**NEOPLASTIC, IMMUNOLOGIC, AND HEMATOLOGIC: PATHOPHYSIOLOGY AND RISK FACTORS**

| 7.2.1   | Describe the epidemiology pathophysiology, risk factors, and key clinical findings of NIH diseases. |

**NEOPLASTIC, IMMUNOLOGIC, AND HEMATOLOGIC: HEALTH APPRAISAL, FITNESS, AND CLINICAL EXERCISE TESTING**

| 7.3.2   | Describe common techniques and tests used to diagnose NIH diseases. |
| 7.3.3   | Conduct and interpret appropriate exercise testing methods for individuals with NIH diseases. |

**NEOPLASTIC, IMMUNOLOGIC, AND HEMATOLOGIC: MEDICAL AND SURGICAL MANAGEMENT**

| 7.6.1   | List the commonly used drugs (generic and brand names) in the treatment of individuals with NIH disease, and explain the indications, mechanisms of actions, major side effects, and the effects on the exercising individual. |
| 7.6.2   | Apply key recommendations of current U.S. clinical practice guidelines (e.g., ACS, NIH) for the prevention, treatment, and management of NIH diseases. |
| 7.6.3   | Explain the common medical and surgical treatments of NIH diseases. |
| 7.6.4   | Explain how treatments for NIH disease may affect the rate of progression of disease. |
Annotated Bibliography

Maddy Houghton
Sample Abstract
February 25, 2012

Li, H.L. and Smith, M.E. Nutrition support for individuals with liver failure. Nutrition Reviews

Write a 1 paragraph, single-spaced summary of a research article. The article must come from a peer-
reviewed journal, such as JADA, J. Nutrition, Am. J. Clinical Nutrition, etc. Describe briefly what the
researchers did (if it is a study) and what the results were. Summarize the conclusions and discussion.
DO NOT just say “They looked at ‘this’ and discussed ‘that’. Be specific about what they looked at and
discussed. Imagine that you are going to be looking at these summaries when you are studying for the
RD exam and you don’t want to go back and read the whole article. Ask yourself what you would want
to know. Use the JADA format for referencing. You can put more than one summary on a page if you
want. You will turn in 8 summaries, at 5 points each, for a total of 40 points. The first 4 summaries are
due March 5; the last 4 are due April 18. The articles are not to be older than the year 2002.

Literature Review

Following are some topics you might find interesting for a literature review. You are free to choose other
topics, but you must seek approval of your topic from the instructor. It can be a topic we’ve covered in
class, but it doesn’t have to be.

Topics:

Gastric Bypass Surgery for weight loss
Celiac Disease
Nutritional Genomics
Dysphagia Diet for CVA
Dietary care for AIDS patients
Diet and COPD patients
Cancer Cachexia
Nutrition in Cardiovascular Disease
Dietary considerations for head injuries
Diet for severe burns
Renal Dialysis and diet
Hepatitis C
Intensive Type 1 Diabetes Management
Role of DM in renal disease
Pharmacology and Diet

Alternative topic approved by instructor
FYI # 302 – delete the studio hours.

Christine K. Oakley, MPH PhD
Director of Global Learning | Associate Clinical Professor, Sociology
Washington State University | International Programs
1-509-335-8180 | coakley@wsu.edu | www.ip.wsu.edu

From: Meier, Kathryn
Sent: Tuesday, February 14, 2012 10:08 AM
To: Oakley, Christine Kay
Cc: Howe, Deborah Renee
Subject: NEP 537

Hi Christine:

NEP 537 does not have any studio hours...it appears that we made an error in filling out the boxes on the form.

Thanks so much for giving us the opportunity to correct the error!

--Kay Meier