PRINCIPLES OF NUTRITION
BIOL 2400

Class Hours: 3.0  Credit Hours: 3.0
Laboratory Hours: 0.0  Revised: Fall 2010

Catalog Course Description:

Human nutrition for the lifespan, including biochemistry of body nutrients, health and disease, government and scientific guidelines.

Entry Level Standards:

College-level English skills and completion of Learning Support Math (college level math preferred).

Prerequisites:

BIOL 2010 or CHEM 1010

Textbook(s) and Other Course Materials:


I. Week/Unit/Topic Basis:

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chapter 1 - Overview</td>
</tr>
</tbody>
</table>
| 2    | Chapter 2 – Planning a Healthy Diet  
     | Chapter 3 – Digestion, Absorption, and Transport |
| 3    | Chapter 3 – Digestion, Absorption, and Transport  
     | Exam I |
| 4    | Chapter 4 - Carbohydrates |
| 5    | Chapter 5 - Lipids |
| 6    | Chapter 6 – Proteins  
     | Exam II |
| 7    | Chapter 7 - Metabolism |
| 8    | Chapter 8 – Energy Balance and Body Composition |
| 9    | Chapter 9 – Weight Management  
     | Exam III |
II. Course Objectives*:  

A. Thoroughly understand food chemistry so as to know the appropriate and adequate food sources of nutrition. V3

B. Understand scientific research methods, so as to discern value of popular diets and other medical information regarding nutrition. V2,3,4,5

C. Understand the digestion, absorption and utilization of nutrients in the body and the implications for normal health as well as a variety of nutrition-related health concerns. V3,4,5

D. Understand metabolism and energy balance within the body. V3

E. Understand how nutrition affects people in different stages of life. V3,5

F. Apply knowledge about nutrition in practical circumstances. V3,4

Numbers after course objectives reference TBR’s general education goals.

III. Expected Student Learning Outcomes*:  

The student will be able to:

1. Use critical thinking to evaluate the literature. (B)

2. Use software designed for personal dietary assessment to evaluate their own diets in comparison to known standards. (A,C,F)

3. Communicate more effectively with the public and with a variety of health care providers, using an appropriate vocabulary. (A, C, D, E, F)

4. Demonstrate the solid foundation in Nutrition which is necessary for moving on to upper level nutrition, nursing, and other health professional courses, and eventually to the job. This will be done by a variety of means, including listening to lectures, guest speakers, viewing videotapes, and participating in group discussions. (A, B, C, D, E, F)

5. Examine issues related to nutrition, including fad diets, media claims, advertisements, and other similar topics. (A, B, F)

*Letters after performance expectations reference the course objectives listed above.
V. Evaluation:

A. Testing Procedures: 100% of grade

Each lecture unit will be evaluated using one exam worth 100 points. Exams consist of both objective (multiple choice) and discussion questions. Additional assignments include performing a personal computerized diet and activity analysis, critically analyzing fast food menus, and utilizing knowledge to modify recipes.

B. Laboratory Expectations:

N/A

C. Field Work:

N/A

D. Other Evaluation Methods:

N/A

E. Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
</tr>
<tr>
<td>B</td>
<td>80-89</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 59</td>
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VI. Policies:

A. Attendance Policy:

Pellissippi State expects students to attend all scheduled instructional activities. As a minimum, students in all courses (excluding distance learning courses) must be present for at least 75 percent of their scheduled class and laboratory meetings in order to receive credit for the course. Individual departments/programs/disciplines, with the approval of the vice president of Academic Affairs, may have requirements that are more stringent. In very specific circumstances, an appeal of the policy may be addressed to the head of the department in which the course was taken. If further action is warranted, the appeal may be addressed to the vice president of Academic Affairs.

B. Academic Dishonesty:

Academic misconduct committed either directly or indirectly by an individual or group is subject to disciplinary action. Prohibited activities include but are not limited to the following practices:

- Cheating, including but not limited to unauthorized assistance from material, people, or devices when taking a test, quiz, or examination; writing papers or reports; solving problems; or completing academic assignments.
- Plagiarism, including but not limited to paraphrasing, summarizing, or directly quoting published or unpublished work of another person, including online or computerized services, without proper documentation of the original source.
- Purchasing or otherwise obtaining prewritten essays, research papers, or materials prepared by another person or agency that sells term papers or other academic materials to be presented as one’s own work.
• Taking an exam for another student.
• Providing others with information and/or answers regarding exams, quizzes, homework or other classroom assignments unless explicitly authorized by the instructor.
• Any of the above occurring within the Web or distance learning environment.

Please see the Pellissippi State Policies and Procedures Manual, Policy 04:02:00 Academic/Classroom Conduct and Disciplinary Sanctions for the complete policy.

C. Accommodations for disabilities:

Students that need accommodations because of a disability, have emergency medical information to share, or need special arrangements in case the building must be evacuated should inform the instructor immediately, privately after class or in her or his office. Students must present a current accommodation plan from a staff member in Disability Services (DS) in order to receive accommodations in this course. Disability Services may be contacted by sending email to disabilityservices@pstcc.edu, or by visiting Alexander 130. More information is available at http://www.pstcc.edu/sswd/.

D. Other Policies:

- Classroom disruptions during lecture, any form of communication during testing, and any other behavior that may prove distracting to other students or the instructor will not be tolerated.

- Students are expected to work on nutrition related material and participate in class discussion when time permits. Food and drink are not allowed in the classroom. Cellular phones and pagers must be turned off or set on the vibrating mode. Students are expected to stay for the entire length of the class lecture unless they have obtained prior approval to leave early from the instructor. Visitors are not allowed in the classroom.