NSC 601 - Bioenergetics
Syllabus - Fall 2012
MW 10:00 – 11:15 am / Shantz, Room 163

Instructor:
Scott Going, PhD; going@u.arizona.edu; 238 Shantz Building; Phone: 621-5501 (621-4705)

Course Description:
NSC 601 is a 3 credit graduate course designed to address topics related to thermodynamics and bioenergetics in humans. Assessment methods, and issues related to the influence of growth, aging, disease, and various interventions on metabolism and energy balance will be consistent themes.

Text Reading Materials:
This course will require outside reading on a weekly basis. No textbook is required. Key review articles and research papers, available online, or provided in class, will be required reading.

Prerequisites:
BIOC 460: General Biochemistry or BIOC 462a - 462b: Biochemistry. Students must have knowledge of central pathways of intermediary metabolism.

Course Outline and Content:
The attached outline indicates the topics to be covered, according to the fall semester calendar. This schedule is a guideline only and may be adjusted in response to the needs of the class. The course material will be covered through lectures, assigned readings, discussions and student presentations. The student is responsible for all reading assignments and lecture material.

Attendance and Exam Policy:
1. Attendance at all lectures is required. It is expected that all students will attend lectures, participate in discussions, read assigned literature, prepare reports and take exams as scheduled. Any student who has missed 4 lectures or more during the course of the semester will receive one grade lower than the grade derived from exams, term paper, class presentation and class discussion.
2. Your attendance at scheduled exams is required. There will be no make-up exams during the semester unless extraordinary reasons are documented. If a student has a documented reason for missing an exam, it is the student's responsibility to schedule a makeup exam, within two weeks of the date of the missed exam. The makeup will be short answer, with an oral question and answer period.
3. Policy on Cheating. Any evidence of cheating or copying during exams or on assignments will be subject to an immediate failure and dropping of the course. This is consistent with University policies. See General Catalog and Code of Academic Integrity.

Exams and Assignments:
1. There will be a Mid-Semester and Final Exam, worth 100 points each. The Final Exam will be held during finals week.

   Exam material will be from class notes, reading assignments, and discussions. Exams will have both objective (multiple choice, matching, true/false) and short answer, essay questions. The exams will be designed to test knowledge, understanding, and application of course material.

2. Each student will be required to complete 2 assignments:
   A. Term paper (100 points)
      Outline and initial references (15 points)
Written term paper (85 points)
B. Class presentation in seminar format on term paper topic (100 points)
   Abstract (10 points)
   Class Presentation (90 points)

All assignments are due during the class period. Assignments turned in after class will have 5 points deducted from the possible points for the assignment and a 5 point penalty will be assessed each day thereafter until the assignment is turned in.

Students should retain all returned assignments until final grades have been posted.

Grades:
Final grades will be dependent on the total number of points you score out of the total number of points available.

GRADES WILL BE BASED UPON THE FOLLOWING DISTRIBUTION:

<table>
<thead>
<tr>
<th>POINTS</th>
<th>GRADE SCALE</th>
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<tbody>
<tr>
<td>2 - Exams 200</td>
<td>A 90 - 100% 369-410 points</td>
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<tr>
<td>1 - Term Paper 100</td>
<td>B 80 - 89% 328-368 points</td>
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<tr>
<td>1 - Class Presentation in Seminar Format 100</td>
<td>C 70 - 79% 287-327 points</td>
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<tr>
<td>Class Participation/Discussion 10</td>
<td>D 60 - 69% 246-286 points</td>
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<tr>
<td>410</td>
<td>E ≤ 59% ≤ 245 points</td>
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ACADEMIC INTEGRITY
Students are encouraged to share intellectual views and freely discuss the principles and applications of the course materials. However, graded assignments must be executed independently, except as noted by the instructor. The course operates under UA Academic Code of Integrity as described in the UA Arizona Record 98-99 General Catalog (online at http://catalog.arizona.edu/policies/974/acacode.htm).

SPECIAL NEEDS
Students needing special accommodations or special services should contact the Learning Disabilities Program/S.A.L.T., 1010 N. Highland, 621-8493 and/or The Center for Disability Related Resources, 1224 E. Lowell St, 621-3268. The needs for specialized services must be documented, verified by these UA units, and presented to me before the end of the 2nd week in class. I will do everything I can to enhance your learning experience.

COURSE WITHDRAWAL
Students withdrawing from this course must execute drop or withdrawal procedures in accordance with the UA General Catalog. The instructor will not process administrative drops due to student absences from class!! It will be the student's responsibility to drop the class.

INCOMPLETE POLICY
Any incomplete grade must be given with a written agreement, between the student and the instructor, which specifies the work to be done and a timetable for the completion of the work.