Lipids and Cell Function  
NUTR 59000 050, CRN 68557  
Fall 2014  
Thursdays 11:30 – 1:20  
Recitation Building 103

Credits: 2 credits

Instructors: Kim Buhman (kbuhman@purdue.edu), Jay Burgess (burgesjr@purdue.edu), Jessie Ellis (ellis70@purdue.edu), Qing Jiang (qjiang@purdue.edu), and Dorothy Teegarden (dteegard@purdue.edu)

Reference Books:

Selected Papers and Book Chapters announced in class and posted on Blackboard Learn.

Format:

Instructor presentation of a hot topic related to Lipids and Cell Function.  
Instructor facilitator of active student participation in discussion and critical evaluation of assigned current literature related to Hot Topic.

Course meets with the Purdue Lipids Club approximately every other week  
Observe/participate in lipids club presentation 1st hour  
Discuss topic of presentation 2nd hour

Student writing assignment and presentations during the last weeks of the semester

Evaluation:

Student participation (50%), written critical evaluation of a research paper/topic (25%), oral presentation of a research paper/topic related to lipids and cell function (same topic/paper selected for paper) (25%),

Participation – The evaluation of student participation will be based on the observation of the instructors of each student’s contribution to the class. The following illustrates optimal active participation resulting in an evaluation score of 100%. This example is just meant as a guideline.

- Describing information from the reading assignments to the rest of the class
- Answering questions posed by the instructor and/or other participants in the class
- Posing questions and/or making astute observations during a topic discussion

Paper and Presentation – Due Dates: September 25 (topic), October 30 (paper) and 12/4 and 12/11 (presentation dates)
Each student will be asked to write a paper and make an oral presentation on an aspect of lipid function in cells. The topic should be discussed and approved by one of the instructors by September 25. The paper should be five pages, double spaced in length. The paper will be due on October 30. The presentation for each student will occur during the final weeks of the class. It should be 15 min in length & 5 min discussion. The paper and presentation is to include critical evaluation of a recent primary research paper. The chosen paper and presentation slides should be sent to Dr. Buhman for posting on Blackboard by Nov. 26th. The paper and presentation should include the following:

- Background information – encompassing both relevant issues in lipid cellular function & key previous research for the main topic
- Primary Research Paper –
  - Complete citation
  - Hypothesis
  - Key Methods
  - Key Results – Presented in an easily read and understood format
  - Primary Conclusions of the Authors
  - Critique of paper
- Unanswered Questions and Future Research

**Policies**
This course will be taught in compliance with Purdue University Policies stated in University Regulations (http://www.purdue.edu/univregs/).

**Course Communication:** Course related information will be shared with students enrolled in the course via Blackboard Learn. This includes any unforeseen changes in schedule and posting of grades. If you need to contact an instructor or teaching assistant directly, please use the above contact information and not Blackboard. If you would like to set up an appointment with an instructor or teaching assistant, please send an email with at least three times that you would be available to meet and we will respond to confirm the time and meeting location.

**Attendance:** Students are expected to be present for every meeting of the classes in which they are enrolled. Only the instructor can excuse a student from a course requirement or responsibility. When conflicts or absences can be anticipated, such as for many University sponsored activities and religious observations, the student should inform the instructor of the situation as far in advance as possible. For unanticipated or emergency absences when advance notification to an instructor is not possible, the student should contact the instructor as soon as possible by email, or by contacting the main office for the Department of Nutrition Science (765-494-8228). When the student is unable to make direct contact with the instructor and is unable to leave word with the instructor’s department because of circumstances beyond the student’s control, and in cases of bereavement, the student or the student’s representative should contact the Office of the Dean of Students.

**Grief Absence Policy for Students:** Purdue University recognizes that a time of bereavement is very difficult for a student. The University therefore provides the
following rights to students facing the loss of a family member through the Grief Absence Policy for Students (GAPS). GAPS Policy: Students will be excused for funeral leave and given the opportunity to earn equivalent credit and to demonstrate evidence of meeting the learning outcomes for missing assignments or assessments in the event of the death of a member of the student’s family.

**Violent Behavior Policy:** Purdue University is committed to providing a safe and secure campus environment for members of the university community. Purdue strives to create an educational environment for students and a work environment for employees that promote educational and career goals. Violent Behavior impedes such goals. Therefore, Violent Behavior is prohibited in or on any University Facility or while participating in any university activity.

**Students with Disabilities:** Purdue University is required to respond to the needs of the students with disabilities as outlined in both the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990 through the provision of auxiliary aids and services that allow a student with a disability to fully access and participate in the programs, services, and activities at Purdue University.

It is the student's responsibility to notify the Disability Resource Center of an impairment/condition that may require accommodations and/or classroom modifications.

If you are eligible for academic accommodations because you have a documented disability that will impact your work in this class, please schedule an appointment with your instructor as soon as possible to discuss your needs.

**Academic Dishonesty:** Purdue prohibits "dishonesty in connection with any University activity. Cheating, plagiarism, or knowingly furnishing false information to the University are examples of dishonesty." [Part 5, Section III-B-2-a, University Regulations] Furthermore, the University Senate has stipulated that "the commitment of acts of cheating, lying, and deceit in any of their diverse forms (such as the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid and abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest." [University Senate Document 72-18, December 15, 1972]

The instructors of this course expect, and will enforce, a strict policy of academic honesty. Students who engage in cheating, plagiarism (from books, articles, the Internet, etc.), representing another student's work as one's own, knowingly furnishing false information to the instructor or university, or other forms of academic dishonesty, will receive appropriate disciplinary action and/or a failing grade in this course. For more information about Academic Integrity please read “Academic Integrity: A Guide for Students.” (http://www.purdue.edu/ODOS/osrr/integrity.htm)

**Campus Emergency:** In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. If possible I will post information regarding any changes on Blackboard. If you need to contact me directly, use the above contact information.
In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances beyond the instructor’s control. Relevant changes to this course will be posted onto the course website or can be obtained by contacting the instructors or TAs via email or phone. *You are expected to read your @purdue.edu email on a frequent basis.*

**Nondiscrimination:** Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, genetic information, marital status, parental status, sexual orientation, gender identity and expression, disability, or status as a veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in Executive Memorandum No. D-1, which provides specific contractual rights and remedies. Any student who believes they have been discriminated against may visit [www.purdue.edu/report-hate](http://www.purdue.edu/report-hate) to submit a complaint to the Office of Institutional Equity. Information may be reported anonymously.