

## Nutritional Biochemistry

Chem 494

3 credits

- Instructor: Kriya Dunlap, 474-2766, kldunlap@alaska.edu
- Office Hours: Department of Chemistry and Biochemistry  
West Ridge Research Building (WRRB), 230  
Tuesday 4:00 ±5:00 pm
- Lecture: WRRB 009
- Reading Material: Reading material will be provided by the instructor a made available through blackboard and on course website. Reading material will be a mix of manuscripts, IACUC and IRB applications, proposals, protocols, and special topic reports and interest pieces.
- Text (optional): Martha H. Stipanuk  
Biochemical and Physiological Aspects of Human Nutrition,  
3<sup>rd</sup> Edition  
Saunders  
Publishing  
ISBN:  
1437709591  
Published 2012  
Supplementary readings: Library, web, manuscripts etc.

## Course:

This 3-credit course focuses on diet and exercise relevant to disease and health outcomes in Alaska. Topics discussed will include components in Alaska foods, such as phytonutrients and omega-3 fatty acids and the health disparities that are affected

Course Goals:

Connect chemical and physical properties of nutrients with their cellular functions.

Gain an understanding of the role of diet and exercise in mitigating disease.

Evaluation:

Attendance/Readings/Discussion/Participation	100 pts
Specific Aims	50 pts
Peer Review	50 pts
Research Plan	50 pts
Peer Review	

do not work: alternative approaches. Again, you will be graded not only your work but also on your review and critique of other proposals.

*Final Proposal:*

A final proposal will include all the components, including a NIH biosketch, timetable and the major components of your proposal.

