



## [NUIP 6450-001 Fall 2019](#) Syllabus

Fall 2019

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# NUIP 6450: Fall Semester 2019

## NUTRITION BIOCHEMISTRY

### INSTRUCTOR INFORMATION



*Lisa Joss-Moore, PhD*  
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### UNIVERSITY SAFETY STATEMENT

The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit [safeu.utah.edu](http://safeu.utah.edu).

## STUDENT LEARNING OUTCOMES

***Student Learning Outcomes: At the end of the course students will be able to:***

1. Demonstrate how to locate, interpret, evaluate and use professional literature to make ethical, evidence-based practice decisions (KRDN 1.1)
2. Apply critical thinking skills (KRDN 1.3)
3. Evaluate emerging research for application in nutrition and dietetics practice (CRDN 1.4)
4. Describe basic concepts of nutritional genomics (KRDN 3.5)
5. Describe the metabolic consequences of environmental and nutritional impacts.
6. Translate the role of the above to nutritionally relevant systems and disease states.

## PREREQUISITES

*Biochemistry 3510*

## LEARNING ASSESSMENTS

### Evaluation Methods and Criteria

*Exams:* There will be one exam at the end of the semester. The exam will be comprehensive and will take place in class. The exam will test (among other things) Student Learning Outcomes 1-6 above.

*Assignments:* Four assignments will be given throughout the semester. The assignments range from 10 points to 100 points and test Learning Outcomes as follows:

Assignment 1 – Learning Outcomes 1,3, and 6

Assignment 2 - Learning Outcomes 2,4, and 5

Assignment 3 - Learning Outcomes 1,2, 3, and 5

Assignment 4- Learning Outcomes 1,2, 3, and 5 and 6

*Quiz:* There will be five random quizzes given throughout the semester – closed book and unannounced!

*Student Journal Club:* Each student will present a paper covering a “Biochemistry in Action” topic. Papers will be assigned 2 weeks prior to presentation date. Presentations should be 15 minutes followed by 5-10 minutes of class discussion. Details will be provided in class. All students are expected to read the assigned papers and be prepared to ask at least one intelligent question during each session.

Assessment – marks will be awarded as follows:

Final Exam – 100

Assignments (4 in total)- 200

Quizzes - 50

Journal Club Presentation - 100

Class Participation - 50

**Total points – 500**

Teaching and Learning Methods: In this course we merge active learning with lectures, discussion and current scientific literature to explore the course concepts and achieve learning objectives. Students will be expected to participate fully in order to receive an adequate grade. While enthusiasm cannot be mandated, it will be beneficial to the learning experience!

## FREQUENTLY ASKED QUESTIONS

- **What’s the best way to go about managing my time for**

### **this class?**

Successful students (those that get A's and B's) use their time wisely. The standard formula for college coursework is that for every 1 hour of credit a student will spend 3 to 6 hours (and sometimes more) of studying and completing homework. Thus, a 4 credit course will require an average of 12 to 24 hours of homework (reading, research, studying) per week.

As a result, successful students plan their time so that they keep up with assignments by maintaining a pace that fits the course schedule. They also communicate with the instructor often so that they can receive feedback on their work. Please note the class is cumulative in nature. A good understanding of the material in the first part of the semester is necessary in order to proceed successfully throughout the remainder of the semester.

- **How can I find out how I did on exams and assignments?**

All assignments will be returned via electronic uploads to Canvas. I encourage you all to review graded assignments and to contact me with any questions. Graded quizzes will be available to review after the due date.

- **I missed an assignment due date, now what?**

Late assignments (defined as assignments submitted between 1 minute and 3 days after the due date) will be accepted for ½ credit. Assignments will not be accepted beyond this point for credit. If you experience technical difficulties with submitting assignments, contact U-online for technical assistance immediately at 801-585-5959 or email me.

- **What happens if I miss a quiz?**

Quizzes on Canvas may not be submitted late for credit.

- **What if I miss an exam?**

There will be no make-up exams without prearranged permission from the instructor. If the incident resulting in a missed exam occurs on the due date - you will have 24 hours to contact me to make the necessary arrangements.

Physician's verification is required for illnesses or other documentation (e.g., doctor's note, accident report, death certificate) for medical or emergency circumstances beyond your control. Late exams must be completed within one week of the *first* date the exam is offered. Contact your instructor via e-mail or voice mail prior to the scheduled exam time or within 24 hours after the incident. Missed exams without permission or acceptable medical or emergency excuse will be assigned a grade of zero, per University policy.

If you know in advance that you need to take the exam at a different time than scheduled, your instructor will work with you to make arrangements. These *arrangements must be scheduled* at least 1 week in *advance* of the exam for a time before the originally planned test date (i.e., if you are jetting to Cabo during the week of the exam, you may take the exam before you leave.)

## □ GRADE SCHEME

The following grading standards will be used in this class:

Grade	Range
A	100 % to 92.5%
A-	< 92.5 % to 89.5%
B+	< 89.5 % to 87.5%
B	< 87.5 % to 82.5%
B-	< 82.5 % to 79.5%
C+	< 79.5 % to 77.5%
C	< 77.5 % to 72.5%
C-	< 72.5 % to 69.5%
D+	< 69.5 % to 67.5%
D	< 67.5 % to 62.5%
D-	< 62.5 % to 59.5%
F	< 59.5 % to 0.0%

## COURSE RESPONSIBILITIES

### Institutional Policies

#### THE AMERICANS WITH DISABILITIES ACT

The University of Utah seeks to provide equal access to its programs, services, and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Olpin Union Building, (801) 581-5020. CDS will work with you and the instructor to make arrangements for accommodations. All written information in this course can be made available in an alternative format with prior notification to the Center for Disability Services.

**Accommodation Policy (see Section Q):**

<http://regulations.utah.edu/academics/6-100.php>

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**For more information regarding safety and to view available training resources, including helpful videos, visit [safeu.utah.edu](http://safeu.utah.edu) .**

#### ADDRESSING SEXUAL

## MISCONDUCT

Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a civil rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veteran's status or genetic information.

If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066.

**For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776.**

**To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).**

## UNDOCUMENTED STUDENT SUPPORT

Immigration is a complex phenomenon with broad impact—those who are directly affected by it, as well as those who are indirectly affected by their relationships with family members, friends, and loved ones. If your immigration status presents obstacles to engaging in specific activities or fulfilling specific course criteria, confidential arrangements may be requested from the Dream Center. Arrangements with the Dream Center will not jeopardize your student status, your financial aid, or any other part of your residence. The Dream Center offers a wide range of resources to support undocumented students (with and without DACA) as well as students from mixed-status families.

**To learn more, please contact the Dream Center at 801-213-3697 or visit [dream.utah.edu](https://dream.utah.edu) .**

## DROP/WITHDRAWAL

Students may drop a course within the first two weeks of a given semester without any penalties. Students may officially withdraw (W) from a class or all classes after the drop deadline through the midpoint of a course. A “W” grade is recorded on the transcript and appropriate tuition/fees are assessed. The grade “W” is not used in calculating the student’s GPA. See the [Academic Calendar](#) for the last day to withdraw from term, first and second session classes.

**Deadlines for courses with irregular start and end dates policy:** <https://registrar.utah.edu/handbook/miscellaneous.php>

## PLAGIARISM/CHEATING

It is assumed that all work submitted to your instructor is your own work. When you have used ideas of others, you must properly indicate that you have done so. Plagiarism and cheating are serious offenses and may be punished by failure on an individual assignment, and/or failure in the course. Academic misconduct, according to the University of Utah Student Code, *“includes, but is not limited to, cheating, misrepresenting one’s work, inappropriately collaborating, plagiarism, and fabrication or falsification of information...It also includes facilitating academic misconduct by intentionally helping or attempting to help another to commit an act of academic misconduct.”*

**For detailed definitions and possible sanctions, see the Student Code:** <http://regulations.utah.edu/academics/6-400.php>

## WELLNESS STATEMENT

Your personal health and wellness are essential to your success as a student. Personal concerns such as stress, anxiety, relationship difficulties, depression, cross-cultural differences,



etc., can interfere with a student's ability to success and thrive in this course and at the University of Utah. Please speak with the instructor or TA before issues become problems.

**For helpful resources, contact the Center for Student Wellness at [www.wellness.utah.edu](http://www.wellness.utah.edu) or 801-581-7776.**

## VETERANS SUPPORT CENTER

The Veterans Support Center is a "one stop shop" for student veterans to find services, support, advocacy, and camaraderie. They are located in the Park Building Room 201.

**You can visit their website for more information about their services and support at: <http://veteranscenter.utah.edu>**

## LGBT RESOURCE CENTER

The University of Utah has an LGBT Resource Center on campus. They are located in Room 409 of the Olpin Union Building. Hours: M-F 8:00AM - 5:00 PM MT.

**You can visit their website to find more information about the support they can offer, a list of events through the center and links to additional resources: <http://lgbt.utah.edu> .**

## LEARNERS OF ENGLISH AS AN ADDITIONAL/SECOND LANGUAGE

If you are an English language learner, please be aware of several resources on campus that will support you with your language and writing development.

**These resources include:**

**Writing Center** (<http://writingcenter.utah.edu> )

**Writing Program** (<http://writing-program.utah.edu> )

## Course Summary:

Date	Details	
Tue Aug 20, 2019	<input type="checkbox"/> <a href="#">Intro and Review</a>	12am
Thu Aug 22, 2019	<input type="checkbox"/> <a href="#">Part 1: Cellular Nuts and Bolts</a>	12am
Tue Aug 27, 2019	<input type="checkbox"/> <a href="#">Part 1: Cellular Nuts and Bolts</a>	12am
Thu Aug 29, 2019	<input type="checkbox"/> <a href="#">Review Lecture Online</a>	12am
Fri Aug 30, 2019	<input type="checkbox"/> <a href="#">Assignment 1 Due</a>	due by 11:59pm
Mon Sep 9, 2019	<input type="checkbox"/> <a href="#">Quiz 1</a>	due by 11:59pm
	<input type="checkbox"/> <a href="#">Assign groups for assignment 2</a>	12am
Tue Sep 10, 2019	<input type="checkbox"/> <a href="#">Part 2: Developmental Origins of Disease and Gene-Environment Interactions</a>	12am
Thu Sep 12, 2019	<input type="checkbox"/> <a href="#">Part 2: Developmental Origins of Disease and Gene-Environment Interactions</a>	12am
Tue Sep 17, 2019	<input type="checkbox"/> <a href="#">Journal Club 1</a>	12am
Thu Sep 19, 2019	<input type="checkbox"/> <a href="#">Part 2: Developmental Origins of Disease and Gene-Environment Interactions</a>	12am
	<input type="checkbox"/> <a href="#">Assignment 2 Due</a>	due by 11:59pm
Tue Sep 24, 2019	<input type="checkbox"/> <a href="#">Part 3 : Regulation of Metabolic Integration</a>	12am
Thu Sep 26, 2019	<input type="checkbox"/> <a href="#">Guest Lecture</a>	12am

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Tue Oct 1, 2019	<input type="checkbox"/>	<a href="#">Journal Club 2</a>	12am
	<input type="checkbox"/>	<a href="#">Assign group paper</a>	12am
Thu Oct 3, 2019	<input type="checkbox"/>	<a href="#">Part 3 : Regulation of Metabolic Integration</a>	12am
Mon Oct 7, 2019	<input type="checkbox"/>	<a href="#">Fall Break</a>	12am
Tue Oct 8, 2019	<input type="checkbox"/>	<a href="#">Fall Break</a>	12am
Wed Oct 9, 2019	<input type="checkbox"/>	<a href="#">Fall Break</a>	12am
Thu Oct 10, 2019	<input type="checkbox"/>	<a href="#">Fall Break</a>	12am
Fri Oct 11, 2019	<input type="checkbox"/>	<a href="#">Fall Break</a>	12am
Tue Oct 15, 2019	<input type="checkbox"/>	<a href="#">Journal Club 3</a>	12am
Thu Oct 17, 2019	<input type="checkbox"/>	<a href="#">Guest Lecture - Surprise!</a>	12am
Tue Oct 22, 2019	<input type="checkbox"/>	<a href="#">Part 4: Lipids and Lipid Metabolism</a>	12am
Thu Oct 24, 2019	<input type="checkbox"/>	<a href="#">Part 4: Lipids and Lipid Metabolism</a>	12am
Tue Oct 29, 2019	<input type="checkbox"/>	<a href="#">Journal Club 4</a>	12am
Thu Oct 31, 2019	<input type="checkbox"/>	<a href="#">Part 4: Lipids and Lipid Metabolism</a>	12am
Tue Nov 5, 2019	<input type="checkbox"/>	<a href="#">Part 4: Lipids and Lipid Metabolism</a>	12am
Thu Nov 7, 2019	<input type="checkbox"/>	<a href="#">Part 5: Inflammation, Regulation of Immunity and Disease</a>	12am
Tue Nov 12, 2019	<input type="checkbox"/>	<a href="#">Journal Club 5</a>	12am
	<input type="checkbox"/>	<a href="#">Assignment 3: Group Paper</a>	due by 11:59pm
Thu Nov 14, 2019	<input type="checkbox"/>	<a href="#">Part 6: Irregularities in Glucose Metabolism and Associated Disease</a>	12am
Tue Nov 19, 2019	<input type="checkbox"/>	<a href="#">Part 6: Irregularities in Glucose</a>	12am

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Metabolism and Associated Disease

Thu Nov 21, 2019	<input type="checkbox"/>	<a href="#">Part 6: Irregularities in Glucose Metabolism and Associated Disease</a>	12am
Tue Nov 26, 2019	<input type="checkbox"/>	<a href="#">Jornal Club 6</a>	12am
Tue Dec 3, 2019	<input type="checkbox"/>	<a href="#">Review Lecture</a>	12am
	<input type="checkbox"/>	<a href="#">Assignment 4</a>	due by 11:59pm
Thu Dec 5, 2019	<input type="checkbox"/>	<a href="#">Final Exam</a>	12am
	<input type="checkbox"/>	<a href="#">Journal Club Presentation</a>	
	<input type="checkbox"/>	<a href="#">Quiz 2</a>	
	<input type="checkbox"/>	<a href="#">Quiz 3</a>	
	<input type="checkbox"/>	<a href="#">Quiz 4</a>	
	<input type="checkbox"/>	<a href="#">Quiz 5</a>	

August 2019						
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

**Course assignments are not weighted.**