



(approximately 20%). The suggested textbook serves as a basic reference. Being prepared for discussion is essential, hence preparation and reading of material is critical.

### Canvas:

Canvas (<https://canvas.alaska.edu>) will be utilized as a central communication platform for announcements, posting of lectures, and reading material. It is assumed that every student is frequently visiting blackboard to check for announcements as well as email notifications.

### Course Policies:

**Attendance:** Regular student attendance is expected to ensure consistency in discussions and presentations. Active student participation is essential and will be accounted for in the final grade.

**Exams:** Two exams will be given including one midterm and one final exam (see grading for details). These exams will be take-home and consist primarily of essay questions. Importantly, **makeup exams** will only be allowed with pre-approval of the instructor or with an acceptable, documented reason such as unexpected illness, family emergencies, or other unavoidable events. The format of a make-up exam could vary from the original. Alternatively, an oral exam may also substitute if acceptable with student.

**Paper discussions:** Students will receive adequate preparation time for all assignments. Students will either lead a paper discussion or be responsible for explaining material associated with figures from the paper.

**Presentations:** Students will receive adequate preparation time for all assignments. Content and organization of topics are the primary concern however, presentation style and discussions are also subject to score (scoring sheet). In some cases, a written assignment maybe part of the oral presentation in form short answers or an essay.

**Homework:** Homework will consist of short answers and essays. Sufficient time will be provided for writing.

**Cell phones:** Cell phones should be off during class. No texting/calling during class.

**Late assignments:** Are not accepted. Students are given at least one week to complete assignments.

### Grading:

Students will be evaluated in four basic areas: ***in-class participation***, written assignments, oral assignments, and knowledge (exams).

Evaluation Type	Points	Percent
Midterm Exam	225	25%
Final Exam	225	25%
Student lead-manuscript discussion (35pts each, 5 lead paper discussion/student)	125	12.5%
Participation in discussions* (10 pts each)	220	22%

Written and verbal h



*approval of both instructors. Violations of the Honor Code will result in a failing grade for the assignment and, ordinarily, for the course in which the violation occurred. Moreover, violation of the Honor Code may result in suspension or expulsion.*

**Plagiarism Policy:**

author. Intellectual property includes all electronic, spoken or print media ***thus any information taken of the web is included under this statement.*** Students are expected to cite all sources used in oral and written presentations. Cases of plagiarism will be taken seriously with a grade 0 for the particular assignment and your advisor will be notified. Severe cases may be referred to the Department Chair or Dean or class failing considered.

**Disabilities**

Students with a physical or learning disability are required to identify themselves to the Disability Services office, 474-7043, located in the Center for Health and Counseling. The student must provide documentation of the disability. Disability Services will then notify the instructor of specia

The Student Code of Conduct may also apply to behavior exhibited online or electronically via email, social media, text messaging, or other electronic means.

**Student protections and services statement:** Every qualified student is welcome in my classroom. As needed, I am happy to work with you, disability services, veterans' services, rural student services, etc. to find reasonable accommodations. Students at this university are protected against sexual harassment and discrimination (Title IX), and minors have additional protections. As required, if I notice or am informed of certain types of misconduct, then I am required to report it to the appropriate authorities. For more information on your rights as a student and the resources available to you to resolve problems, please go the following site: [www.uaf.edu/handbook/](http://www.uaf.edu/handbook/).

**COVID-19 Awareness:** Students should keep up-to-

## Course Schedule

<b>Date</b>	<b>Topic</b>	<b>Reading Homework (Whitford/Papers)</b>	<b>Written Homework</b>
Jan 11	Syllabus, Amino Acids	Chapter 2	<b>Quantitative Protein Detection (Jan 25)</b>
Jan 13	Amino Acids, Peptide Bond	Chapter 2	
Jan 18			

	Membrane proteins		
Feb 22	<b>Protein Structure/Function Paper Discussions</b>	Lu et al., 2019 (Elizabeth) Fantini et al., 2016 (Cam)	
Feb 24	<b>Protein Structure/Function Paper Discussions</b> <b>MIDTERM</b> (handout)	Earl et al., 2018 (Leilani) Walsh et al., 2018 (Lahra)	
March 1	<b>MIDTERM</b>		
March 3	<b>MIDTERM - Due by 4.30pm</b>		
March 7-11	<b>Spring Break- no classes</b> <b>Download Chimera before March 15th</b>		
March 15	<b>Chimera/Protein Sequence BLAST</b>	Protein viewing and sequence searching	
March 17	Protein Synthesis	Chapter 8	<b>Protein synthesis, trafficking and targeting</b>
March 22	Trafficking and Targeting	Chapter 8	
March 24	Trafficking and Protein Folding	Chapter 8 & 11	<b>Protein folding</b>
March 29	Protein Folding	Chapter 11 Kweon et al., 2020 (Elizabeth)	
March 31	<b>Paper Discussions:</b> Protein Folding	Daggett and Fersht (2003) (Cam) Mayor et al, 2003 (Leilani)	<b>Final Project handout</b>
April 5	<b>Paper Discussions:</b> Protein Folding & Disease	Smith et al., 2015 (Lahra) Pensalfini et al., 2014 (Elizabeth)	
April 7	Unfolded Protein Response		

April 12	Protein Degradation (proteasome)		
April 14	<b>Paper Discussions:</b> Protein Folding & Disease	Halliday and Mallucci, 2014 (Cam) Kanatsu et al., 2014 (Leilani)	
April 19	<b>Paper Discussions:</b> Protein Folding & Disease	Calafate et al., 2016 (Lahra) Poirier et al., 2019 (Weltzin)	
April 21	Final Project due Final (handout)	Final project presentations	
April 25	<b>Final</b>		
April 29	<b>Final due by 4.30 pm</b>		