Course Description
This course is a weekly seminar course that will cover selected readings in a focused topic in bioinformatics. This year’s topic is Computational Approaches for Understanding the Microbiome. We will focus on bioinformatics and computational biology methods for exploring and investigating the microbiome, i.e. the bacteria that live on and in the human body and contribute to human health. In addition to critically reading and assessing papers in the field, students will each lead a weekly paper discussion to develop and hone presentation skills.

Pre-Requisites
DMICE BCB track or instructor permission.

Instructor: Lisa Karstens PhD, Assistant Professor
Email: karstens@ohsu.edu
Office Hours: By appointment

Required Textbook and Reading Material:
Weekly readings and presentation assignments will be assigned in the first week of the course.

Course Schedule:

<table>
<thead>
<tr>
<th>Week Number</th>
<th>Date</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Tues, April 3</td>
<td>Introduction, Presentation Zen, Presentation Assignments</td>
<td>Karstens</td>
</tr>
<tr>
<td>Week 2</td>
<td>Tues, April 10</td>
<td>Lecture 1</td>
<td>Karstens</td>
</tr>
<tr>
<td>Weeks 3-11</td>
<td>Tues April 17-Tues June 12</td>
<td>Selected Topics</td>
<td>TBD</td>
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Course Grading
Grading for this course is on a letter grade scale. Grades will be based on the following:

- Attendance: 20%
- Participation: 40%
- Presentation: 40%

Letter Grade Assignments
- A= 94-100%
- A-=90-93%
- B+=87-89%
- B=84-86%
- B-=80-83%
- C+=77-79%
- C=74-76%
- C-=70-73%
- D=60-70%
- F=<60%

Graduate Studies in the OHSU School of Medicine is committed to providing grades to students in a timely manner. Course instructors will provide students with information in writing at the beginning of each course that describes the grading policies and procedures including but not limited to evaluation criteria, expected time needed to grade individual student examinations and type of feedback they will provide.

Class grades are due to the Registrar by the Friday following the week of finals. However, on those occasions when a grade has not been submitted by the deadline, the following procedure shall be followed:

1) The Department /Program Coordinator will immediately contact the Instructor requesting the missing grade, with a copy to the Program Director and Registrar.
2) If the grade is still overdue by the end of next week, the Department /Program Coordinator will email the Department Chair directly, with a copy to the Instructor and Program Director requesting resolution of the missing grade.

3) If, after an additional week the grade is still outstanding, the student or Department /Program Coordinator may petition the Office of Graduate students for final resolution.

**Attendance and Participation**
Students are expected to critically read the weekly assigned literature. In-class participation will include guided discussion of the assigned readings, responses to presenter questions, and completing constructive weekly evaluations for student presenters.

**Student Presentations**
Student presenters will be responsible for presenting the material for their assigned week to the class and leading discussion on a critical analysis of the assigned paper(s). This includes relevant background information, methods, key results, and major conclusions. Presenters should be comfortable explaining and discussing all figures, tables, and methods (including information in supplementary methods/materials as necessary). Assigned reading material should be reviewed in full with sufficient time to clarify any issues with the mentored teaching assistant and/or instructor as needed.

**Academic Integrity**
The students must follow the OHSU guidelines for academic integrity. You may discuss the general concepts and principles behind an assignment with other students. In fact, you are encouraged to do this, because it often leads to better comprehension of the material. However, in doing assignments, each student is expected to develop an individual solution. Under no circumstances should a student copy or consult the solution of another student, or copy a solution from any other source, including the Internet. See http://www.ohsu.edu/xd/education/library/research-assistance/plagiarism.cfm?WT_rank=1# and http://www.ohsu.edu/xd/education/teaching-and-learning-center/for-students/index.cfm for more information.

**Copyright Information**
Every reasonable effort has been made to protect the copyright requirements of materials used in this course. Class participants are warned not to copy, audio, or videotape in violation of copyright laws. Journal articles will be kept on reserve at the library or online for student access. Copyright law does allow for making one personal copy of each article from the original article. This limit also applies to electronic sources.
To comply with the fair use doctrine of the US copyright law, Sakai course sites close three weeks after grades are posted with the Registrar. Please be sure to download all course material you wish to keep before this time as you will have no further access to your courses.

**DMICE Communication Policy**
1. If the syllabus directs the student to contact the TA before contacting the instructor, the student should do so. Otherwise, the student should contact the instructor and allow 2 business days (not including weekends) for a response.
2. If the student does not receive a response from the instructor within 2 business days, s/he should contact the TA (if there is one). When contacting the TA s/he should cc the instructor and Diane Doctor at doctord@ohsu.edu.

3. If a student does not receive a response from the TA within 1 business day (not including weekends), s/he should contact Diane Doctor at doctord@ohsu.edu and cc the instructor and the TA.

4. If Diane does not reply within 1 business day (not including weekends), the student should contact Andrea Ilg at ilgan@ohsu.edu.

5. Students having difficulties with Sakai should contact the Sakai Help Desk at sakai@ohsu.edu or at (877) 972-5249. Sakai help is available M-F from 8am to 9pm and weekends from Noon to 5pm. Do not contact the instructor.

Please use professional etiquette when communicating with peers and the instructor. This means avoiding aggressive or offensive language, showing respect for others’ opinions and positions, and conducting yourself as if you were face to face with them. Please pay special attention to etiquette in class forums and when using email. If you notice someone violating this policy, please make the instructor and TA aware of the problem.

**Commitment to Equity and Inclusion**

Oregon Health & Science University is committed to creating and fostering a learning and working environment based on open communication and mutual respect. If you encounter sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin or ancestry, veteran or military status, sex, marital status, pregnancy or parenting status, sexual orientation, gender identity, disability or any other protected status please contact the Affirmative Action and Equal Opportunity Department at 503-494-5148 or aaeo@ohsu.edu. Inquiries about Title IX compliance or sex/gender discrimination and harassment may be directed to the OHSU Title IX Coordinator at 503-494-0258 or titleix@ohsu.edu

**Syllabus Changes and Retention**

This syllabus is not to be considered a contract between the student and the School of Medicine. It is recognized that changes may be made as the need arises. Students are responsible for keeping a copy of the course syllabus for their records.

**Student Access**

OHSU is committed to providing equal access to qualified students who experience a disability in compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act (ADA) of 1990, and the ADA Amendments Act (ADA-AA) of 2008. If you have a disability or think you may have a disability (physical, sensory, chronic health, psychological or learning) please contact the Office for Student Access at (503) 494-0082 or studentaccess@ohsu.edu to discuss eligibility for academic accommodations. Information is also available at www.ohsu.edu/student-access. Because accommodations may take time to implement and cannot be applied retroactively, it is important to have this discussion as soon as possible. All information regarding a student’s disability is kept in accordance with relevant state and federal laws.
**Academic Honesty**
Course participants are expected to maintain academic honesty in their course work. Participants should refrain from seeking past published solutions to any assignments. Literature and resources (including Internet resources) employed in fulfilling assignments must be cited. See http://www.ohsu.edu/xd/education/library/research-assistance/plagiarism.cfm?WT_rank=1# for information on code of conduct for OHSU and http://www.ohsu.edu/xd/education/teaching-and-learning-center/for-students/index.cfm for more information on citing sources and recognizing plagiarism.

*In an effort to uphold the principles and practice of academic honesty, faculty members at OHSU may use originality checking systems such as Turnitin to compare a student’s submitted work against multiple sources.*

*To protect student privacy in this process, it will be necessary to remove all personal information, i.e. student name, email address, student u-number, or any other personal information, from documents BEFORE submission.*

**Use of Sakai**
This course will have an online component, which can be accessed through Sakai, OHSU’s online course management system. For any technical questions or if you need help logging in, please contact the Sakai Help Desk.

Hours: Sakai Help Desk is available Mon – Fri, 8 am – 9 pm and weekends 12 pm – 5 pm Pacific Time.

Contact Information:
(Toll-free) 877-972-5249
(Web) http://atech.ohsu.edu/help
(Email) sakai@ohsu.edu