

rules governing curriculum & course changes.

FORM COURSE OR NEW COURSE PROPOSAL

9. CONTACT HOURS PER WEEK:

3

LECTURE
hours/weeks

3

LAB
hours /week

PRACTICUM
hours /week

1600 minutes of contact = 1 credit; 3200 4800 minutes of contact = 1 credit; 4800 8000 minutes of contact = 1 credit

15. SPECIAL RESTRICTIONS, CONDITIONS

None

16. PROPOSED COURSE FEES

\$200

Has a memo been submitted through your dean to the Provost for fee approval?

Yes/No

No

17. PREVIOUS HISTORY

No

microbiomes such as the human gut. This course will provide a depth of knowledge in a growing field.

Dear Student: biomedical research has been the backbone of the human microbiome research.

Overall direction of

health-related research. This interest in personal outcomes is already making a huge impact into the genomics era.

methods and

techniques of collecting genomic data from microbiome samples using methods of genomic analysis, we are better preparing future scientists in the genomics era.

to generate and integrate

REFERENCES: Add additional significant Citations as needed.



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The Human Microbiome (BIOL F494)

Fall 2016 Syllabus

Prerequisites: BIOL 260, STAT 200X

Credits: 4

Location and meeting times:

Lectures (BLDG ###): Tues/Thurs 9:45-11:15 AM

Labs (BLDG ###): Thurs 2:00-5:00 PM

For more information:

Contact: FullHydrogen@caltech.edu Phone: 607 474 2602

Office Hours (224 WRRB): Weds 10-11 AM or by appointment

Course readings/materials

Course readings will consist of papers from the primary literature. There is no required textbook for this

The Human Microbiome (BIOL F494/694)

an ability to:

- Find and explore and critically review the relevant literature

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feedback from the thought pieces

Blog Post

There is a need to communicate beyond the ivory towers of our institutions. It is a worthy goal and a

necessary component of doing science especially on a publically funded project. The greater use of

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Support Services

• ~~Students with disabilities should contact the instructor directly with the instructor~~

Disabilities Services

Any student needing accommodation of a disability should provide me with a letter from the Office of Disability Services within the first two weeks of class. The Office of Disability Services (<http://www.uaf.edu/disability/> 208 Whitaker BLDG, 474-5655) also requires students contact them at least 2 days in advance of any event for which they need special arrangements

The Human Microbiome (BIOL F494/694)

Course calendar

Week	Tuesday	Thursday	Lab	Assignments
1	None	Lecture: Introduction	Gut Check	
2				
3	hosts Lecture: Model systems, lessons from mice	Microbiome Project Discussion: Student topic	Coordination Center Bioethics and IRB	
4	Lecture: Non-model host systems, Mammals	Discussion: Student topic	Science Communication	
5	Lecture: Environmental Metacommunities	Discussion: Student topic	Data collection: Community module	
6	Lecture: Plant-microbe interactions	Discussion: Student topic	Data collection: Community module	
7	Lecture: Evolution, Hologenome	Discussion: Student topic	Data collection: Genome module	Blog topic
8	Lecture: Coevolution	Discussion: Student topic	Data collection: Genome module	
9	Lecture: Genomics	Discussion: Student topic	Introduction to Bioinformatics	
10	Lecture: Human Disease	Discussion: Student topic	Data analysis module	Blog draft