ANS6714

**Current topics in Microbial physiology in Animals**

Spring 2024

Course description: Insights about microbial pathogenesis, microbial genetics, and molecular microbiology with particular reference to livestock species.

Instructor: Kwangcheol Casey Jeong
kcjeong@ufl.edu
Tel: 352-294-5376
Office hours: By appointment

Credit: 1 credit.
Prerequisites: None
Meeting days/time: Monday and Wednesday (period 8/9), Friday (period 8), Rm201
Text: none required
Recommended Text: Prescott's Microbiology, Willey, 8th Edition.

Course format: Instructor will give four lectures and one paper presentation/discussion will be led by students each week for 3 weeks. Each student will give a 25 minutes presentation and lead student discussion.

Course website:
E-learning support services; https://ufl.instructure.com/
Instructor will provide the copy of lectures in class and lecture materials will be posted after class

Course objectives: Upon completion of this course, students

- Will acquire principle knowledge of microbial physiology
- Will be able to discuss current microbiology research topics and issues
- Will be able to give effective presentations to audience
- Will be able to apply microbial physiology knowledge to their research topics

Grading:

- Grades will be based on performance on a final exam, a student presentation, and participation
- One final exam (60%), student participation in class (10%), and a student presentation (30%) will account for final grade
- Plagiarism will result in no credit awarded for the exam
- Presentation will be graded by organization of presentation, clarity of presentation, knowledge of the subject, and handling of questions
- Participation will be graded by preparedness and participation in other student's presentation. Students are expected to read all of the assigned papers for the student presentation and will be graded by the level of understanding of the papers
- Final exam will be comprised from instructor lectures and student presentation papers

- Students can use AI to summarize research literature, but not allowed to use AI tool when preparing presentations and taking exams.

**Lecture contents:**

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| Lecture 1 (2/5, M): | Overview of course, microbial cell structure |
| Lecture 2 (2/7, W): | Pathogens and beneficial microorganisms |
| Lecture 3 (2/9, F): | Research paper discussion |
| Lecture 4 (2/12, M): | Microbial genomics and gene regulation by extracellular signals |
| Lecture 5 (2/14, W): | Methods for analyzing microbial physiology |
| Lecture 6 (2/16, F): | Microbiome and animal health |
| Lecture 7 (2/19, M): | Host-microbe interactions & Antimicrobial resistance |
| Lecture 8 (2/21, W): | Research paper presentation |
| Lecture 9 (2/23, F): | Final exam |

**Student presentation:**

- Papers will be selected by the instructor and will be informed to students at the beginning of the class
- PDF version of papers will be posted on the class website
- Students are required to set up at least a 30-minutes meeting with instructor prior to their presentation to coordinate the content of the presentation.

Grading scale: A (93 and above),
A- (90-92),
B+ (87-89),
B (83-86),
B- (80-82),
C+ (77-79),
C (73-76),
C- (70-72),
D+ (67-69),
D (63-66),
D- (60-62),
E (<60)

## Grades and Grade Points

For information on current UF policies for assigning grade points, see
https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

**Attendance and Make-Up Work**

Requirements for class attendance and make-up exams, assignments and other work are consistent with university policies that can be found at:
https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

**Online Course Evaluation Process**
Student assessment of instruction is an important part of efforts to improve teaching and learning. At the end of the semester, students are expected to provide feedback on the quality of instruction in this course using a standard set of university and college criteria. These evaluations are conducted online at https://evaluations.ufl.edu. Evaluations are typically open for students to complete during the last two or three weeks of the semester; students will be notified of the specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results.

**Academic Honesty**
As a student at the University of Florida, you have committed yourself to uphold the Honor Code, which includes the following pledge: "*We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity."* You are expected to exhibit behavior consistent with this commitment to the UF academic community, and on all work submitted for credit at the University of Florida, the following pledge is either required or implied: *"On my honor, I have neither given nor received unauthorized aid in doing this assignment*."

It is assumed that you will complete all work independently in each course unless the instructor provides explicit permission for you to collaborate on course tasks (e.g. assignments, papers, quizzes, exams). Furthermore, as part of your obligation to uphold the Honor Code, you should report any condition that facilitates academic misconduct to appropriate personnel. It is your individual responsibility to know and comply with all university policies and procedures regarding academic integrity and the Student Honor Code. Violations of the Honor Code at the University of Florida will not be tolerated. Violations will be reported to the Dean of Students Office for consideration of disciplinary action. For more information regarding the Student Honor Code, please see: http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code.

**Software Use:**
All faculty, staff and students of the university are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against university policies and rules, disciplinary action will be taken as appropriate.

**AI tool Use:**
Please follow UF/IF guidelines for AI use.
UFpolicy: https://www.syllabus.ufl.edu/media/syllabusufledu/syllabi_policy_09_09_2022.pdf
CALS policy: https://cals.ufl.edu/content/pdf/Faculty_Staff/CALS-Syllabus-Policy.pdf

**Services for Students with Disabilities**
The Disability Resource Center coordinates the needed accommodations of students with disabilities. This includes registering disabilities, recommending academic accommodations within the classroom, accessing special adaptive computer equipment,

providing interpretation services and mediating faculty-student disability related issues. Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation

0001 Reid Hall, 352-392-8565, **www.dso.ufl.edu/drc/**

**Campus Helping Resources**

Students experiencing crises or personal problems that interfere with their general well-being are encouraged to utilize the university's counseling resources. The Counseling & Wellness Center provides confidential counseling services at no cost for currently enrolled students. Resources are available on campus for students having personal problems or lacking clear career or academic goals, which interfere with their academic performance.
*University Counseling & Wellness Center, 3190 Radio Road, 352-392-1575,*
**www.counseling.ufl.edu/cwc/**

Counseling Services
Groups and Workshops
Outreach and Consultation
Self-Help Library
Training Programs
Community Provider Database

*Career Resource Center,* First Floor JWRU, 392-1601, **www.crc.ufl.edu/**

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