

Instructors: Liwei Gu
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Time: Tuesday, 12:50-1:40 pm
Classroom: Zoom ID 432 137 7351 or Rinker Hall 0210
Credit: 1 credit

Course Description and Objectives

This course is designed to help graduate students (and instructor) to keep up with the latest discoveries and innovations in areas of food chemistry, processing, bioavailability, and health benefits of bioactive food components and functional foods.

The specific objectives of this course are:

1. Exam and interpret the latest research trends and innovations in functional foods
2. Identify and fill gaps of knowledge through self-learning and peer teaching
3. Exam and assess the new research approaches and concepts
4. Inspire new ideas and innovations

Course content and format:

This class will consist of lectures, student presentation, and group discussions. Each student is required to select 3-4 research papers from reputable peer-reviewed journals. These papers will be presented and discussed in class. These papers must be published after 2015 and represent the latest research trends, innovation, or new research methods. The emphasis of papers can be food chemistry, food processing, bioavailability, or physiological effects of foods. Each student is required to ask one question, identify one limitation, provide one suggestion for application or improvement, and come up with a new idea.

Assignment 1 Assessment of Latest Trends: Students and instructor will meet in the first two weeks to discuss and identify the latest trends or emerging areas of functional food development. Each student will have her/his own assessment and formulate a plan to learn one of the identified trends (30 points).

Assignment 2 Gaps of Knowledge Assessment: Students and instructor will meet in first three weeks to identify gaps of knowledge. Each student will have her/his own assessment and formulate a plan to fill gaps (30 points).

Assignments 3-5 Critical Reading and Discussion of Research: Select and email research papers to the class by the end of January, February, and March. Research paper must address an emerging area or fill a specific knowledge gap. In addition to the primary research papers, you may attach a review paper and an additional research paper as supporting materials.

In-class presentation: Oral presentations must be done in MS PowerPoint and cover the following content.

1. Background
2. Research objectives and hypothesis
3. Research methods
4. Research Findings
5. Limitations and Drawbacks
6. Significance in functional foods (explain why this paper represents the latest trends)
7. New ideas and possible applications of new research ideas in functional food research

Grading criteria of in-class presentation. Each student will present 3-4 times.

Cover all 7 required areas (15 points)
 Verbal clarity and fluency (15 points)
 Clarity of slides (10 points)
 Ability to convey complex concepts (10 points)
 Timing (30 min) and Enthusiasm (10 points)
 Participation in class discussion (10 points)

Course Grading (about 380 total points)

Course will be graded according to the latest UF grade policy
<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Letter grade	Grade point	Percent value
A	4.0	95-100%
A-	3.67	92-94.9%
B+	3.33	89-91.9%
B	3.0	86-88.9%
B-	2.67	83-85.9%
C+	2.33	80-82.9%
C	2.0	76-79.9%
C-	1.67	73-75.9%
D+	1.33	70-72.9%
D	1.0	66-69.9%
D-	0.67	60-65.9%
E (Fail)	0	0-59.9%

Homework and term paper turned in late will be penalized with 10% of the maximum grade per week of delay. Similarly, a credit of 10% of the maximum grade will be given per week if homework and reports are not graded by the instructor within a week.

Attendance

Students must attend all lectures and discussion according to university policy
<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>. The non-justified absences and absences in excess of three will be penalized each with 5% off the maximum final grade. Special circumstances need to be addressed with the instructor and will be assessed on a case-by-case basis.

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>.

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.

Campus Helping Resources

Students experiencing crises or personal problems that interfere with their general wellbeing 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
 - Wellness Coaching
- U Matter We Care, www.umatter.ufl.edu/
- Career Resource Center, First Floor JWRU, 392-1601, www.crc.ufl.edu/