Course Instructors and Office Hours

Keith R. Schneider, Professor
Food Science and Human Nutrition Department
Room 216, AFPL Building, Newell Drive
Phone: 352-294-3910
Email: keiths29@ufl.edu
Office Hours: Tuesdays and Thursdays, 9-11am or by appointment

Post Doctoral Assistant
Jaysankar De, Post-Doctoral Research Associate
Food Science and Human Nutrition Department
Room 105, AFPL Building, Newell Drive
Phone: 352.294.3903
Email: jde@ufl.edu
Office Hours: Tuesdays and Thursdays, 9-11am or by appointment

Teaching Assistant

Adam Baker
Food Science and Human Nutrition Department
210 Aquatic Food Products Laboratory
Tel: 352.294.3906
Email: bake275@ufl.edu

Dr. Schneider (KRS) will be responsible for overall coordination and administration of the course. He will share instructional duties with Dr. Jay De (JD). Please consult the course outline for specific lecture dates and topics. The teaching assistant, Mr. Adam Baker, will be available for general questions concerning course matters.

Course Hours/Location

Course will be held in McCarty A 2196 Tuesday and Thursday 5th period and McCarty B 2102 Thursday 6th period.
Course Objectives

Upon completion of this course, students should:
1. Be familiar with food safety hazards, assessment of risk, and evaluation.
2. Understand the principles, actions, and limitations of food sanitation procedures.
3. Be familiar with current and future implications concerning food safety hazards and risks.
4. Be able to research a topic, synthesis current information and develop a term paper and class presentation.

Prerequisites

MCB 2000, MCB 2000L, or the equivalent.

Course Format

Students will acquire knowledge of the pertinent issues in food safety and sanitation through the use of lectures, class discussions, outside reading and assignments. Students registered for FOS 5205 will be required to submit a 10-15 page term paper in the area of Food Safety and Sanitation. Topics must be approved by instructors. Each student will be required to give a 30-minute class lecture during the course of the semester. Each student will also be required to participate other activities such as group discussion and presentations.

Course Description

Lectures, discussions, and demonstrations concerning microbial, chemical and biological safety of food, principles of sanitation for the food processing and retail foods industries.

Textbook and References

Required


This text will be on reserve at the Marston Science Library under FOS 4202 / FOS 5205 and be available for purchase from the UF bookstores and from several online sources.

Additional References will be provided for week’s topic as needed (example)

Grading

- Exams (3) 60% (20% each)

Exams 1 and 2 (~50 min, closed book exams) will each cover approximately 1/3 of the course material and be equally weighted. However, later course material will draw on foundation material presented in the first section of the course; students should therefore be prepared to apply principles from the entire course as they develop their answers to assignments and exams. The final exam will be a comprehensive, closed book exam that will allow the student to demonstrate an understanding and synthesis of the concepts of food safety and sanitation from the entire course.

- Term Paper/Class Assignments 40%

The term paper and class assignments represent a significant part of the course grade, and their successful completion is critical. The term paper, in the form of a scientific review paper on a particular topic relevant to food safety and sanitation. All topics must be cleared through the instructor(s). Additionally, you will be asked to present your topic as a brief lecture to your fellow students. Please adhere to stated deadlines for maximum credit.

Attendance and promptness will be noted.

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<tr>
<th>FOS 5205</th>
<th>Percent (%)</th>
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<tbody>
<tr>
<td>Class Assignments</td>
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<tr>
<td>Grad Exams (3)</td>
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<td>Term Paper</td>
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<tr>
<td>Exam 1</td>
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<td>Exam 2</td>
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<td>Final Exam</td>
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<thead>
<tr>
<th>Course Average Grade</th>
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<tr>
<td>90 – 100 A</td>
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<td>88 – 89 B+</td>
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<td>84 – 87 B</td>
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<td>60 – 63 D-</td>
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Course Outline

Week 1
8/23 Class Introduction and Overview for FOS 4202 and FOS 5205

Read Chapter 1 (Marriott, Schilling and Gravani)

Week 2
8/28 Food Safety
8/28 Recent Foodborne Outbreaks
8/30 Foodborne Pathogens

Read Chapter 3 (Marriott, Schilling and Gravani)

Week 3
9/4 Foodborne Pathogens (TBA)
9/4 Current Issues: Journal Review (What’s happening this semester?)
9/6 Foodborne Pathogens

Read Chapters 3 (Marriott, Schilling and Gravani)

Week 4
9/11 Allergens
9/13 Non-microbial Hazards (Chemical and Physical)

Read Chapters 4 and 5 (Marriott, Schilling and Gravani)

Week 5
9/18 Regulations (Dr. Goodrich Schneider)
9/20 Implications of New Food Regulations
9/20 EXAM 1

Readings will be provided

Week 6
9/25 Food Safety Systems Overview, Part 1
9/25 Brief Look at HACCP and FSMA
9/27 Food Safety Systems Overview, Part 2

Readings will be provided
Read Chapters 7 and 8 (Marriott, Schilling and Gravani)

Week 7
10/2 Food Safety Systems Overview, Part 3
10/2  Presentation Skills
10/4  Personal Hygiene

Read Chapters 6 and 7 (Marriott, Schilling and Gravani)

Week 8
10/9  Cleaning and Sanitizing Part 1
10/9  Advanced Chlorine Chemistry
10/11 Cleaning and Sanitizing Part 2

Read Chapters 9 and 10 (Marriott, Schilling and Gravani)

Week 9
10/16 Cleaning and Sanitizing Part 3
10/16 Risk Assessment
10/18 Exam 2 (Take home grad exam)

Read Chapters 9 and 10 (Marriott, Schilling and Gravani)

Week 10
10/23 Pest Control
10/23 Environmental Monitoring (Guest lecturer Dr. Danyluk)
10/25 Waste Management

Read Chapters 12 and 13 (Marriott, Schilling and Gravani)

Week 11
10/30 Sanitary Design, Part 1
10/30 Student Presentations
11/1 Sanitary Design, Part 2

Read Chapter 13 and 14 (Marriott, Schilling and Gravani)

Week 12
11/6 Sanitary Design, Part 3
11/6 Student Presentations
11/8 Plant Specific Case Studies

Read Chapter 14 (Marriott, Schilling and Gravani)

Week 13
11/13 Plant Specific Case Studies
11/13 Possible Field Trip
11/15 Plant Specific Case Studies Seafood
Read Chapters 15, 17, 18, or 19 (Marriott, Schilling and Gravani) (TBA)

Week 14
11/20 Recall and Traceback (Guest Lecturer Goodrich-Schneider)
11/22 Hot Topic (TBA)
11/22 No Class – Thanksgiving Break

Week 15
11/27 Biosecurity
11/27 ServSafe Extra
11/29 ServSafe and the Food Code

Read Chapter 2 (Marriott, Schilling and Gravani)

Week 16
12/4 Course Review (Last Day of Class)
12/4 Review of Student Topics

Week 17
12/11 ServSafe Certification Exam (Optional) (Time subject to change)
12/13 Final Exam 5:30-7:30 am (Exam will be one hour)

Important Notes:

Academic Honesty.

As a result of completing the registration form at the University of Florida, every student has signed the following statement: I understand that the University of Florida expects its students to be honest in all academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.

University of Florida Counseling Services.

On-campus resources are available for students having personal problems or lacking clear career and academic goals that interfere with their academic performance. These resources include:

2. Student Mental Health. Student Health Care Center, 392-1171, personal counseling;

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Period Schedule

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<th>Period</th>
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<tbody>
<tr>
<td>1</td>
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<td>3</td>
<td>9:35 - 10:25am</td>
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<tr>
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<td>6:15 - 7:05pm</td>
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