

# FOS 6936/FOS4936 – TECHNOLOGY OF FATS & OILS IN FOOD APPLICATIONS

Fall Semester 2014  
3 Credit Hours  
Section 05F9 / 1A29

Lecture Sessions: Tuesday & Thursday  
Tues.– Period 2-3 / Thurs.– Period 4  
8:30 AM to 10:20AM / 10:40AM to 11:20AM  
McCarty A Room 2196

Instructors: Dr. Gloria B.Cagampang / Dr. George L. Baker IV  
Office Location: Food Science & Human Nutrition Building  
Newell Drive, Room 467B  
Office Phone: (352) 392-1991 x218  
Email: goyang@live.com / glba@ufl.edu  
E-learning tool: <http://lss.at.ufl.edu>

Office Hours: Tuesday & Thursday (or by appointment)  
1:00PM to 2:00PM

Required Text: Course Packet (provided by Instructors)

## Course Objectives:

1. To provide general knowledge of agronomy, production, and trade of the current domestic and offshore oilseeds (soybean, canola and palm).
2. To provide knowledge of critical parameters involved in the extraction, refining, bleaching, and deodorization of fats and oils and their modifications (blending, interesterification, emulsification, votation) into functional shortenings and the subsequent handling and preservation of their quality.
3. To provide the basic chemistry of fats and oils, focusing on understanding the relevance of their physicochemical and biochemical properties and their functions as ingredients in foods.
4. To provide knowledge and understanding of the changes / reactions of fats and oils in food systems that influences the stability of finished food.
5. To provide the fundamental metrics for assessing the quality factors of fats and oils that are relevant to the quality and safety of their usage as ingredient food systems.
6. To provide updated knowledge on the nutritional and health benefits of fats and oils, focusing on the common misconceptions and scientific facts involved with ingredients.
7. To provide hands on experience in the differentiation of the functionality of fats and oils as applied to food systems.

Schedule: Exam 1 - October 7<sup>th</sup>, 2014  
Exam 2 - November 4<sup>th</sup>, 2014  
Exam 3 - December 4<sup>th</sup>, 2014

Examinations: Exams will be a mixture of multiple choice, short answer, and essay questions, taking place during normal lecture periods  
**EXAM DATES ARE SUBJECT TO CHANGE WITH REASONABLE PRIOR NOTICE, ANNOUNCED DURING LECTURE**

Make-up Exams: Make-up exams will be allowed on a case-by-case basis at the discretion of the Instructor. Students should make a concerted effort to contact the Instructor PRIOR to the scheduled exam date.

Scoring: - Three (3) Examinations (30 points each) = 90 POINTS  
- Course Participation 10 POINTS  
100 POINTS

Grading Scale: Points based system. 100 total points

- A → 90% to 100%
- A- → 86% to 89%
- B+ → 83% to 85%
- B → 80% to 82%
- B- → 76% to 79%
- C+ → 73% to 75%
- C → 70% to 72%
- C- → 66% to 69%
- D+ → 63% to 65%
- D → 60% to 62%
- D- → 56% to 59%
- E → 0% to 55%

- Class Rules:
- Please turn off all cell phones and/or communication devices during lecture and especially during exams.
  - If you need to have a conversation with a friend, please take your discussion outside and come back quietly when you are finished.
  - If you are late for lecture, please enter quietly and have a seat at the nearest spot available.
  - Please do not ask the instructor questions immediately before lecture or exams.

### 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>

### Absences 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>

### 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/honorcodes/honorcode.php>

### 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.

### 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/](http://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/](http://www.crc.ufl.edu/)*

### **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/](http://www.dso.ufl.edu/drc/)