

# **FST 5730: Technical Problem Solving**

## **Course Syllabus; Spring 2018**

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**Credits:** 3 credit hours

**Class Times:** Tuesday 2:30 pm - 3:55 pm, Thursday 2:30 pm - 3:55 pm

**Office Hours:** By appointment

**Format of instruction:** Lecture, lab

### **Course Description:**

The purpose of this course is to help students develop the skills required to address problems in the practical application of food industry. The assigned problems will be short term, where students have four weeks to provide solutions, as well as long term, where students have ten weeks to provide solutions. At the end of the course, students should be able to apply critical thinking and combine/integrate knowledge from previous courses to address issues and challenges in the food industry. Basic concepts of food science will also be discussed in the class when required.

### **Course/Learning Objectives**

- Apply critical thinking and previous knowledge to solve real-life problems of the food industry
- Develop written and verbal presentation/communication skills
- Develop decision-making skills by investigating different ways to address a challenge and choose the most efficient solution
- Obtain teamwork experience to complete specific projects

**Course Materials and References:** Recommended Reading --- Hall, D. 1995. Jump Start your Brain. Werner Books. New York, NY Topic Outline:

## Course outline

Students will be assigned with two short terms projects and one long term project.

DATE	CLASS	Assignment
1/9/2018	Course Overview; Introduction to basic concepts, Food issues, food sectors, food composition.	Grocery visit
1/11/2018	Tools, resources and strategies for technical problem solving. Examples.	
1/16/2018	Team formation	Presentation for grocery visit due
1/18/2018	Lab/pilot plant visit, training project	
1/23/2018	Presentation of training project hypothesis	
1/25/2018	Introduction to ST and LT projects. Project selection	
1/30/2018	Discuss the progress for ST1 projects	
2/1/2018	Discuss the progress for ST1 projects	
2/6/2018	Discuss the progress for ST1 projects Thoughts for the LT projects	
2/8/2018	Discuss the progress for ST1 projects	
2/13/2018	Discuss the progress for ST1 projects	
2/15/2018	Discuss the progress for ST1 projects	
2/20/2018	Discuss the progress for ST1 projects	
2/22/2018	Completion of the ST1 project	Final ST1 project reports due
2/27/2018	Introduction to ST2 and discussion on the LT projects	
3/1/2018	Discuss the progress for ST2 projects	
3/6/2018	Discuss the progress for ST2 projects	
3/8/2018	Discuss the progress for ST2 projects	
3/13/2018	Spring Break	
3/15/2018	Spring Break	
3/20/2018	Discuss the progress for ST2 projects	
3/22/2018	Discuss the progress for ST2 projects	
3/27/2018	Discuss the progress for ST2 projects	
3/29/2018	Discuss the progress for ST2 projects	
4/3/2018	Completion of the ST2 project	
4/5/2018	Review status of LT projects	Final ST2 project reports due
4/10/2018	Review status of LT projects	
4/12/2018	Review status of LT projects	
4/17/2018	Review status of LT projects	Draft of LT project reports due
4/19/2018	Oral presentation of final reports for LT projects	
4/24/2018	Oral presentation of final reports for LT projects	
4/26/2018	Oral presentation of final reports for LT projects	Final reports of LT projects due

**Statement on academic misconduct**

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

**Disability services statement**

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations so that they may be implemented in a timely fashion. SLDS contact information: [slds@osu.edu](mailto:slds@osu.edu); 614-292-3307; [slds.osu.edu](http://slds.osu.edu); 098 Baker Hall, 113 W. 12th Avenue.

**Mental health statement**

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student’s ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life’s Counseling and Consultation Service (CCS) by visiting [ccs.osu.edu](http://ccs.osu.edu) or calling 614-292-5766. CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at 614-292-5766 and 24 hour emergency help is also available through the 24/7 National Suicide Prevention Hotline at 1-800-273-TALK or at [suicidepreventionlifeline.org](http://suicidepreventionlifeline.org).