# **COURSE SYLLABUS**

- 1. Name of Course: Food Processing II
- 2. Course Code: ICFS 316
- 3. Number of Credits: 4 (Lecture/Lab) (4-0)
- 4. Prerequisites: ICFS 315 Food Processing I
- 5. Type of Course: Required
- 6. Semester / Academic Year: Second Trimester/2004
- 7. **Course Description**: Continuation of Food Processing sequence. Food Processing techniques including preservation by chilling, freezing, membrane technology, fractionation, fermentation, osmotic dehydration, and emerging processing technologies. Post processing operations. Processing factors that influence quality.

#### 8. Course Objectives:

 Gain an understanding of basic food processing unit operations
To integrate concepts in chemistry, biochemistry, physics, engineering, mathematics with food processing operations and understand their role in processing of food.

3. To gain the ability to think critically about problems and issues in food processing

4. To gain an appreciation for how the food processing industry's role in society.

Week		Instructor			
	Lecture/Seminar	Hour	Lab	Hour	
1& 2	Chilling	8			Dr. Kohnhorst
	Controlled- or				
3	Modified Atmosphere	4			Dr. Kohnhorst
	Storage and Packaging				
4	Freezing	4			Dr. Kohnhorst
5	Freeze Drying and	4			Dr. Kohnhorst
	Freeze Concentration				
6	Centrifugation,	4			Dr. Kohnhorst
	Filtration, Expression				
	Midterm Examination	2			
	Extraction Using	2			
7	Solvents, Membrane				Dr. Kohnhorst
	Concentration				

## 9. Course Outline

7 & 8	Extrusion	6	Dr. Kohnhorst
9 & 10	Fermentation	6	Dr. Kohnhorst
	Technology		
11	Halal and Kosher	4	
	Processing; Hurdle		Dr. Kohnhorst
	Processing; Osmotic		
	Dehydration		
	Total	44	

#### 10. Teaching Methods:

- 1. Lectures
- 2. Movies
- 3. Field Trips

## 11. Teaching Media:

- 1. Textbook
- 2. Powerpoint presentations
- 3. Handouts on relevant topics

#### 12. Course Achievement:

Assessment made from the stated criteria- students who receive more than 90% of the total points will receive a Grade A.

## 13. Course Evaluation:

Midterm Exam:	35%
Final Exam:	40%
Quizzes/ Class Participation:	15%
Attendance:	10%

Total 100%

## 14. References:

1. Fellows, P. Food Processing Technology, Principles and Practice. CRC Press, New York . 2000.

2. Potter, N.N. and Hotchkiss, J.H. *Food Science*, (5<sup>th</sup> Edition); Aspen Publishers, Inc., Gaithersburg, Maryland 1998. Call Number: TP370.P58; ISBN: 0-8342-1265-X

# 15. Course Coordinator: Dr. Andrew Kohnhorst