SYLLABUS
FST/HNFE 5014
SENSORY EVALUATION OF FOOD
SPRING 2008

INSTRUCTORS

Lecture and Laboratory
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CLASS TIMES AND ROOMS

Lecture: Tuesday & Thursday, 12:30-1:45
Laboratory: Thursday, 9:00-10:45

COURSE DESCRIPTION

Principles of sensory evaluation including experimental methods, applications, and statistical analysis. Pre: Introductory statistics.

COURSE OBJECTIVES:

1. To describe appropriate methodologies and applications of discrimination, descriptive, and affective tests used in sensory evaluation.

2. To relate how physiological, psychological, and environmental factors affect judgments in sensory tests.

3. To apply statistical knowledge and analyze sensory data for valid and meaningful interpretation of sensory results.

4. To develop skills in communicating technical sensory information.

TEXT

REQUIRED: Meilgaard, M., Civille, G.V., and Carr, B.T. 2006. *Sensory Evaluation Techniques*, 4th ed. CRC Press, Inc., Washington, DC.

RECOMMENDED; Lawless, H. T. and Heymann, H. 1999. *Sensory Evaluation of Food*

Principles and Practices. Chapman & Hall, New York.

REQUIRED READING

Journal of Food Science Style Guide.
http://members.ift.org/IFT/Pubs/JournalofFoodSci/jfsauthorinfo/jfsstyleguide.htm

Guidelines for the Preparation and Review of Papers Reporting Sensory Evaluation Data.
http://members.ift.org/IFT/Pubs/JournalofFoodSci/jfsauthorinfo/jfs_sensoryevaluation.htm

Use of Human Subjects and Institutional Review Board.
http://www.irb.vt.edu/pages/training.htm
http://www.irb.vt.edu/pages/newstudy.htm

LABORATORY NOTEBOOKS

Each student must have a loose leaf 3-ring binder to use for laboratory handouts and recording data in lab. The notebook should be obtained before the January 31 lab.

COURSE WEB SITE

The Blackboard web site for the course can be accessed through the Virginia Tech homepage (see Quicklinks or www.learn.vt.edu). Most of the information needed for class, such as assignments, project information, etc. will be on this web site.

SENSORY NEXUS

Sensory Nexus is a discussion list (hosted through Yahoo Groups) serving as an open forum for the discussion of news, questions, or issues relevant to the sensory community. This will be an important forum for questions and issues raised in the lecture in this class.

As part of this class, you are required to join this discussion group so you will be able to "listen" in on topics ranging from testing with senior adults to sensory evaluation facilities to the value of discrimination testing. There are over 980 sensory professionals in this discussion group and typically there is frequent activity. You also can contribute to the discussion but do not solicit answers to your project or test questions because I will consider such solicitation as a violation of the honor code.

You can join the list at http://www.sensory.org Note that to subscribe through the web you will have to obtain a Yahoo ID and password if you do not already have a Yahoo account.

COURSE EVALUATION

Assignment	**Points**
Midterm	150
Final	150
Laboratory Assignments	200
Independent Project Idea	25

Independent Project Proposal	75
Written Report of Project	100
Oral Report of Project	50
Project Management	25

GRADING SCALE

A	93-100	C+	77-79.9	D	63-66.9
A-	90-92.9	C	73-76.9	D-	60-62.9
B+	87-89.9	C-	70-72.9	F	>60
B	83-86.9	D+	67-69.9		
B-	80-82.9				

HONOR CODE

The Honor Code will be strictly enforced in this course. All assignments submitted shall be considered graded work, unless otherwise noted. All aspects of your coursework are covered by the honor system. Any suspected violations of the honor code will be promptly reported to the honor system. Honesty in your academic work will develop into professional integrity. The faculty and students of Virginia Tech will not tolerate any form of academic dishonesty.

CLASS SCHEDULE
SPRING 2008

Week	Lecture	Laboratory
1/14-1/18	Introduction- Role of Sensory Evaluation in Industry; (Ch 1, M; Ch 1 and 19, L&H) **Dr. Susan Duncan** Principles of Good Sensory Practices (Ch 3, M; Ch 3 L&H); **Dr. Susan Duncan**	**January 17** Description of Journal Article Reviews; Requirements for Independent Projects.
1/21-1/25	Use of Human Subjects (Lab III) (http://www.irb.vt.edu/pages/training.htm) **Dr. Duncan** Factors Affecting Sensory Judgments (Ch 4, M; Ch 9 L&H) **Dr. Duncan**	**January 24** Lab I Statistical Methods in Sensory Evaluation lecture and activity (Ch 13, M; Appendix I-V, L&H). Report due on 1/31.
1/28-2/1	Physiology of the Senses (Ch 2, M; Ch 2 L&H) **Dr. Jae Hee Hong**	**January 31** Lab II. Journal Article Review discussion. • Turn in Lab I • Turn in Lab II
2/4-2/8	Discrimination Testing Principles (Ch 6 and 7, M; Ch 4 and 5, L&H) **Dr. Hong** Discrimination Testing Methods **Dr. Hong**	**February 7** Meet individually with instructors to discuss independent project idea. • Turn in Project Idea • Lab III IRB Training documentation due
2/11-2/15	Discrimination Testing Methods **Dr. Hong**	**February 14** Lab IV Discrimination Tests. Report due on 2/21.
2/18-2/22	Scales and Rating Tests - Measuring Responses (Ch 5, M; Ch 6 and 7, L&H) **Dr. Duncan** **R-**Exam 1	**February 21** Lab V Ranking and Multiple Comparison Tests. Report due on 3/13 • Turn in draft of Human Subjects IRB forms • Lab IV due
2/25-2/29	Affective Testing Principles (Ch 12, M; Ch 13-15, L&H) **Dr. Duncan** Affective Testing Methods **Dr. Duncan**	**February 28** Lab VI Affective/Consumer Testing. Report due on 3/20. • Project Proposals due.
3/3-3/7	**Spring Break**	**Spring Break**
3/10-3/14	Affective Testing Methods **Dr. Duncan** Ranking and Rating Methods **Dr. Duncan**	**March 13** Meet individually with instructors to discuss project proposal. • Turn in Lab V
3/17-3/21	Descriptive Testing Principles (Ch 9-11, M; Ch. 10-12, L&H) **Dr. Duncan** Descriptive Testing Methods **Dr. Duncan**	**March 20** Lab VII Descriptive Analysis. Report due on 4/3. • Lab VI due • Revised Project Worksheets due • Market Order Requests for Independent Projects due
3/24-3/28	Independent Projects start (no class)	**March 27** No lab
3/31-4/4	Descriptive Testing Methods **Dr. Duncan**	**April 3** Lab VIII Journal Article Review presentations. • Lab VII due

4/7-4/11	**T – Exam 2** Independent Project (no class on Thursday)	
4/14-4/18	Independent Project (no class)	
4/21-4/25	T - Independent Project (no class) R- Final project presentations (continued from lab session)	**April 24** Final project presentations and paper due.
4/28-4/30	T - Course Summary and Evaluation	

M = Meilgaard et al., 1999 (Required Text); L&H= Lawless and Heymann, 1998 (Recommended Text