**UNIVERSITY OF HAWAI'I AT MĀNOA**  
**UHM-2 FORM (MODIFY/DELETE A COURSE)**

See Guidelines for instructions and deadlines. For undergraduate courses, submit an original and 4 copies; graduate courses, submit an original and 6 copies. If cross-listed, include extra copies for cross-listed department(s) & college(s). List one course per form. Attach additional sheets as needed.

<table>
<thead>
<tr>
<th>1. Transaction Type</th>
<th>2. Course Subject and Number</th>
<th>3. Existing Full Course Title</th>
<th>4. Effective Term of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>☑ Modify</td>
<td>☑ Delete</td>
<td>Experimental Foods</td>
<td>Fall 2015</td>
</tr>
</tbody>
</table>

5. Honors Counterpart Exists?  
- ☑ No (To add honors counterpart course also check Box 8a)  
- ☐ Yes – Honors Program must sign box 11. Specify course:  

6. Existing Cross-listed Course(s)  
Signature of cross-listed department(s) required in Box 11 and Dean(s) in “Approved By” section. To remove cross-listed status also check Box 8b.

8. Type of Change  
Check all that apply. For each change, fill in CHANGE DETAILS below. Read instructions carefully before completing this section. Use additional sheets if needed.

- ☑ a. Course Subject &/or Number  
- ☑ b. Frequency  
- ☑ c. Offering Status  
- ☑ d. Full Course Title/Banner Title (Banner title 30 char. max incl. spaces/punctuation)  
- ☑ e. Grade Option  
- ☑ g. Contact Hours/Number of Credits/Repeat Limit/Credit Limit  
- ☑ h. Schedule Type  
- ☑ i. Co-requisite Course(s)  
- ☑ k. Class Standing Restrictions  
- ☑ l. (i) Prerequisite Course(s)  
- ☑ l. (ii) Prerequisite Grade Requirement  
- ☑ l. (iii) Blanket Requirements  
- ☑ m. Catalog Description  
- ☑ n. Cross-listed/Honors Course(s) – Signatures required in Box 11 & “Approved By” section for cross-listings. Submit syllabus for honors courses.

**CHANGE DETAILS**

<table>
<thead>
<tr>
<th>Change Type</th>
<th>Existing Data</th>
<th>Proposed Data</th>
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</thead>
<tbody>
<tr>
<td>(Specify letter noted above)</td>
<td>(Check Banner to confirm)</td>
<td>(Enter data as it should appear AFTER change. Use Box 9 to describe change.)</td>
</tr>
<tr>
<td>g. 3 lab, 1 3-hr lab</td>
<td>3 lec</td>
<td>3 lec</td>
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<tr>
<td>h. 4 credits</td>
<td>3 credits</td>
<td>3 credits</td>
</tr>
<tr>
<td>i. no co-requisite</td>
<td>FSHN 181, FSHN 181L, CHEM 272, equiv 2 yrs high school algebra</td>
<td>FSHN 181, FSHN 181L, CHEM 161, CHEM 161L</td>
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</table>

9. Description of Change(s) & Justification  
Describe the change and why it is being requested, including its relationship to your overall curriculum. Attach additional sheets if needed. Attach a course syllabus for the modified course specifying student learning objectives for the course. Syllabi are not required for "79" courses.

The lab is being split from the lecture so that we can add multiple lab sections with different instructors to meet student demand.

10. Consultation  
If other UHM departments and/or UH-system campuses will be affected, have they been consulted? (e.g., course is a prerequisite, required for another major, offered at another UH campus, etc.)  
☐ Yes – Indicate offices/campuses:  
☒ Not applicable

11. Cross-listed Departmental/Honors Program  

<table>
<thead>
<tr>
<th>Dept/Unit</th>
<th>Chair/Director</th>
<th>Signature</th>
<th>Date</th>
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12. Requested By  
I certify that the student learning objectives for this modified course are consistent with the learning objectives of each program under which the course is listed.

HNFAS  
Brent Buckley for Halina Zaleski  
Chair/Director  
Signature  
Date  

Approved By  

<table>
<thead>
<tr>
<th>1st College/School</th>
<th>Dean</th>
<th>Signature</th>
<th>Date</th>
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<table>
<thead>
<tr>
<th>2nd College/School</th>
<th>Dean</th>
<th>Signature</th>
<th>Date</th>
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General Education (Undergraduate courses numbered 100-499)  

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<tr>
<th>Director</th>
<th>Signature</th>
<th>Date</th>
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Graduate Division (600 level and above)  

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<th>Dean</th>
<th>Signature</th>
<th>Date</th>
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Mānoa Chancellor's Office  

<table>
<thead>
<tr>
<th>Vice Chancellor for Academic Affairs</th>
<th>Signature</th>
<th>Date</th>
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Rev. 7/2013
Course Description:

This course is about experimental approaches to study food preparation and production. Topics will address the scientific method, development of critical skills, and the effects of chemical composition, ingredients, preparation, and cooking or processing techniques on the quality of the finished products. Standards of food quality, recipe development and modification, and utilization of sensory measurements will be studied. Prerequisites: FSHN 181, CHEM 161-161L, Corequisite: FSHN 381L.

Texts/booklets:


Course Objectives: By the end of the course, students will have:

1. learned and practiced problem-solving and critical thinking skills
2. learned and practiced facilitation skills while working on group projects
3. read and reacted to certain value and vision statements
4. practiced using the scientific method
5. read and analyzed scientific information on print and from internet media
6. prepared for and made weekly informal oral presentations and three formal oral presentations
7. modified formulations and determined effects on the quality and acceptability of the finished products
8. analyzed food research data collected in the laboratory and wrote up an experimental report.

Course Requirements:

1. Each student, as an individual or part of a group, will design and write experimental laboratory protocol, search library and scientific literature on the internet for appropriate articles for each experiment, carry out food experiments, write reports, and make weekly oral class presentations.
2. Each student will 1) read and understand appropriate sections in the text and other reference materials, 2) come to class with written answers/proposals/suggestions on the assignments, 3) be prepared to share and discuss this information with group members, 4) make oral presentations.
3. Students are responsible for their own performance on take-home examinations and are responsible for all written and verbal assignments.

Information on attendance/participation/laboratory techniques/due dates:

1. Students must participate in group and class discussion. If you are not in class and participate in group discussion, you will be marked absent.
2. **Attendance will be taken five minutes after the beginning of class. If you arrive later than five minutes after the class has started, you will be marked absent**
3. No journals will be accepted after the due date (except under extenuating circumstances).
4. All cellular phones and pagers must be turned off during class periods. **No exceptions.**
Assignments, guidelines, expectations, and requirements:

1. Each group member must come to class prepared with type-written answers (with reference citations) to discuss the topic of the day (usually an experimental design, solution to the problem, the results of their assignments, or sensory evaluation form), etc. Your contributions to the group will be collected at the beginning of the class period. If you need a copy for your group discussion, bring one to turn in and a copy for yourself (or your group). **These will be graded as home-work assignments.**

2. There will be three take-home examinations during the course of the semester. You may consult with your group members for possible answers but each person must submit his/her own answers. There will be no final examination. Late examinations will not be accepted.

3. Each student will be required to write one journal entry per week on material relevant or related to FSHN 381. See *Academic Journal Information* sheet for more information.

4. Each student, as part of a group, will be required to make weekly oral presentations to the class explaining his/her group decisions on experimental protocol.

**NOTE:** Every effort has been made to insure that the material in this syllabus is accurate and complete. However, occasional changes must be made to the printed outline and syllabus. The instructor reserves the right to make any changes in the contents of this syllabus that is deemed necessary or desirable. These changes, if any, will be announced as soon as the need for them becomes apparent.

**Course Grading:**

- Mini-exams scattered through out semester (60, 70, 70) 200 points
- Report on analysis of scientific paper 100 points
- Report on sensory evaluation 100 points
- Journal Entries 200 points
- Peer grade (the Instructor may contribute up to 35% of this grade) 100 points
- Oral Presentations (3 formal group presentations) 100 points
- Attendance 100 points
- Homework 100 points

**Total Points** 1,000 points

A bonus 50 points awarded to those attended and completed the FSHN Council leadership retreat (9/9 to 9/11)

**Grading Scale (number of points):**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
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<tbody>
<tr>
<td>A</td>
<td>930 – 1000</td>
</tr>
<tr>
<td>B+</td>
<td>867 – 899</td>
</tr>
<tr>
<td>C+</td>
<td>767 – 799</td>
</tr>
<tr>
<td>D+</td>
<td>667 – 699</td>
</tr>
<tr>
<td>A-</td>
<td>900 – 929</td>
</tr>
<tr>
<td>B</td>
<td>834 – 866</td>
</tr>
<tr>
<td>C</td>
<td>734 – 766</td>
</tr>
<tr>
<td>D</td>
<td>634 – 666</td>
</tr>
<tr>
<td>D-</td>
<td>600 – 633</td>
</tr>
<tr>
<td>F</td>
<td>&lt;600</td>
</tr>
</tbody>
</table>

(For WI students, each grade number multiplies by a factor of 1.2. For instance, the F grade cut-off becomes 720.)

Students will be provided the mean of scores and the range for each take home exam in order that each student may have information related to his/her standing in the course. A student may meet any time in the semester with the instructors to clarify test grades or standing in the course.

**Academic dishonesty (excerpted from UHM Student Conduct Code)**

“Because UHM is an academic community with high professional standards, its teaching, research, and service purposes are seriously disrupted and subverted by academic dishonesty. Such dishonesty includes cheating and plagiarism as defined below. Ignorance of these definitions will not provide an excuse for acts of academic dishonesty.
1. Cheating includes but is not limited to giving or receiving unauthorized assistance during an examination; obtaining unauthorized information about an examination before it is given; submitting another’s work as one’s own; using prohibited sources of information during an examination; fabricating or falsifying data in experiments and other research; altering the record of any grade; altering answers after an examination has been submitted; falsifying any official University record; or misrepresenting of facts in order to obtain exemptions from course requirements.

2. Plagiarism includes but is not limited to submitting, in fulfillment of an academic requirement, any work that has been copied in whole or in part from another individual’s work without attributing that borrowed portion to the individual; neglecting to identify as a quotation another’s idea and particular phrasing that was not assimilated into the student’s language and style or paraphrasing a passage so that the reader is misled as to the source; submitting the same written or oral or artistic material in more than one course without obtaining authorization from the instructors involved; or “drylabbing,” which includes obtaining and using experimental data and laboratory writeups from other sections of a course from previous terms.

3. Disciplinary sanctions. One or more of the following sanctions may be imposed whenever a student is found to have violated any of the rules contained in the Conduct Code: Warning, probation, restitution, rescission of grades, suspension, expulsion.”

Revised 09/04/2014