



# SYLLABUS

# FDSCTE 5450

Food Regulations

Spring 2021 (1/11/2021 to 4/26/2021)

3 credit hours – In person

## COURSE OVERVIEW

### Instructor

**Name:** Melvin Pascall

**Email:** pascall.1@osu.edu

**Phone Number:** 614-292-0287

**Office location:** 225 Parker Food Science

**Office hours:** Mondays and Wednesdays from 11:30 a.m.-1:30 p.m.

**Preferred means of communication:**

- My preferred method of communication for questions is **email or in person**.
- My class-wide communications will be sent through email or the Announcements tool in CarmenCanvas.

### Course Prerequisites

FDSCTE 2400 or permission of lecturer. Not open to students with credit for 649.

### Course description

This course covers three areas pertaining to food packaging materials and methods: materials, systems, and applications. The course will begin by reviewing current trends in food packaging then it flows into the properties, fabrication and function of metal, glass, paper and plastic packaging. Packaging systems and equipment will include sanitation of materials, forming, filling, joining and enclosure operations, and related equipment. Selected topics for food packaging applications will include aseptic packaging, package/product interactions, closure integrity, modified atmosphere and active packaging, shelf life studies, handling and cushioning of packaged products. Laboratory exercises and field trips will complement the

classroom lectures.

## Course learning outcomes

By the end of this course, students should successfully be able to:

- Be able to comfortably discuss packaging related issues such as materials selection, forming techniques and packaging sealing with a packaging engineer.
- Know how food packaging is manufactured.
- Understand the material properties of various packaging raw materials as well as the final package.
- Understand the principal methods of packaging foods as well as criteria for selecting and testing packaging materials.
- Become familiar with packaging equipment and methods.
- Have discussed recent advances in food packaging techniques and systems.

## HOW THIS COURSE WORKS

**Mode of delivery:** This course is 100% in person except for the first two weeks of classes (from 1/11/2021 to 1/21/2021). During this online class time, a required synchronous (real time) session in Zoom will be used to deliver the lectures each week on Mondays and Wednesdays at 1:50 – 2:45 p.m. and on Thursdays 12:45-3:40 p.m. The rest of your work is found in Carmen and can be completed around your own schedule during the week.

**Pace of online and in person activities:** This course is divided into **weekly modules**. The online part will be released one week ahead of time. Students are expected to keep pace with weekly deadlines but may schedule their efforts freely within that time frame.

**Credit hours and work expectations:** This is a 3 credit-hour course. According to [Ohio State bylaws on instruction](https://www.osu.edu/credithours) (go.osu.edu/credithours), students should expect around 5 hours per week of time spent on direct instruction (instructor content, laboratory exercises, Carmen activities, for example) in addition to [6] hours of homework (reading and assignment preparation, for example) to receive a grade of [C] average.

**Attendance and participation requirements:** Research show that participation is one of the highest predictors of success. With that in mind, I have the following expectations for everyone's participation:

- **Participating in online, in person lectures and laboratory activities for attendance: at least once per week**  
You are expected to log in to the course in Carmen during the first two weeks. During this time you will probably log in many times. If you have a situation that might cause you to miss an entire week of class, discuss it with me as soon as possible.
- **Zoom meetings and office hours: optional**  
For all live scheduled events for the course, such as the term paper presentations,

attendance is required unless prior approval for an absence is obtained. Attendance at my office hours, are optional. I will post recordings of synchronous sessions for those who cannot attend.

## COURSE MATERIALS AND TECHNOLOGIES

### Textbooks

#### REQUIRED MATERIALS

1. *Food Packaging, Principles and Practice*. 2<sup>nd</sup> Ed. Gordon L Robertson. Marcel Dekker, Inc., New York, NY.
2. *Fundamentals of Packaging Technology*. Fifth edition. 2014. Soroka, W. Institute of Packaging Professionals, Naperville, IL.

#### RECOMMENDED/OPTIONAL

1. *Canned Foods: Principles of Thermal Process Control, Acidification and Container Closure Evaluation*. 7th edition. 2007. Weddig, L.M., Balestrini, C.G., Shafer, B.D. GMA Science and Education Foundation, Washington, DC.
2. *Wiley Encyclopedia of Packaging Technology*, Second Edition, 1997. Brody and Marsh, editors. John Wiley & Sons, Inc. New York, NY.
3. *Post-harvest Technologies of Fruits and Vegetables*. 2015. Hosahalli, R. S. DEStech Publications, Inc. Lancaster, PA.

### Course technology

For help with your password, university email, Carmen, or any other technology issues, questions, or requests, contact the Ohio State IT Service Desk. Standard support hours are available at [ocio.osu.edu/help/hours](https://ocio.osu.edu/help/hours), and support for urgent issues is available 24/7.

- **Self-Service and Chat support:** [ocio.osu.edu/help](https://ocio.osu.edu/help)
- **Phone:** 614-688-4357(HELP)
- **Email:** [servicedesk@osu.edu](mailto:servicedesk@osu.edu)
- **TDD:** 614-688-8743

#### BASELINE TECHNICAL SKILLS FOR ONLINE COURSES

- Basic computer and web-browsing skills
- Navigating Carmen: ([GO.OSU.EDU/CANVASSTUDENT](https://go.osu.edu/canvasstudent))
- CarmenZoom virtual meetings ([GO.OSU.EDU/ZOOM-MEETINGS](https://go.osu.edu/zoom-meetings))

- [Recording a slide presentation with audio narration and recording, editing and uploading video](https://go.osu.edu/video-assignment-guide) (go.osu.edu/video-assignment-guide)

## REQUIRED TECHNOLOGY SKILLS SPECIFIC TO THIS COURSE

- Computer: current Mac (MacOS) or PC (Windows 10) with high-speed internet connection.
- Webcam: built-in or external webcam, fully installed and tested
- Microphone: built-in laptop or tablet mic or external microphone
- Other: a mobile device (smartphone or tablet) to use for BuckeyePass authentication

If you do not have access to the technology you need to succeed in this class, review options for [TECHNOLOGY AND INTERNET ACCESS](https://go.osu.edu/student-tech-access) (go.osu.edu/student-tech-access).

## REQUIRED EQUIPMENT

- Computer: current Mac (OS X) or PC (Windows 7+) with high-speed internet connection
- Webcam: built-in or external webcam, fully installed and tested
- Microphone: built-in laptop or tablet mic or external microphone
- Other: a mobile device (smartphone or tablet) or landline to use for BuckeyePass authentication

## REQUIRED SOFTWARE

- [Microsoft Office 365](https://go.osu.edu/office365help): All Ohio State students are now eligible for free Microsoft Office 365 ProPlus through Microsoft's Student Advantage program. Full instructions for downloading and installation can be found [at go.osu.edu/office365help](https://go.osu.edu/office365help).

## CarmenCanvas ACCESS

You will need to use [BuckeyePass](#) multi-factor authentication to access your courses in Carmen. To ensure that you are able to connect to Carmen at all times, it is recommended that you take the following steps:

- Register multiple devices in case something happens to your primary device. Visit the [BuckeyePass - Adding a Device](#) help article for step-by-step instructions.
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your computer, click **Enter a Passcode** and then click the **Text me new codes** button that appears. This will text you ten passcodes good for 365 days that can each be used once.

- Download the [Duo Mobile application](#) to all of your registered devices for the ability to generate one-time codes in the event that you lose cell, data, or Wi-Fi service.

If none of these options will meet the needs of your situation, you can contact the IT Service Desk at 614-688-4357 (HELP) and IT support staff will work out a solution with you.

## GRADING AND FACULTY RESPONSE

### How your grade is calculated

ASSIGNMENT CATEGORY	POINTS
Quizzes:	5%
Midterm Exam:	25%
Final Exam:	25%
Term paper:	20%
Labs/plant tour reports:	25%
Total	100%

\*Please refer to Carmen for due dates of assignments.

See [Course Schedule](#) for due dates.

### Descriptions of Major Course Assignments

#### QUIZZES

Two in person quizzes will be given to test your knowledge on concepts covered in the lecture materials. The quizzes will be closed book in format. You will not be permitted to use your notes, books, the internet, or other aids while taking the quizzes.

#### FINAL EXAM

The final exam is comprehensive and will assess students' learning of topics throughout the semester. Final exam will be Online. The exam will be closed book in format. You will not be permitted to use your notes, books, the internet, or other aids while taking the exam.

## TERM PAPER ASSIGNMENTS

**Description:** Students will be expected to individually prepare a written report discussing a packaging related topic, issue, or problem faced by the food industry or food packaging field. The instructor will give a topic to each student by Thursday February 13, 2020. Reports should be no less than 5 pages of written text. Supporting figures and graphics may be included but will not count towards the 5 pages. Reports are to be type written with the author's name and the report title on a title page. The title page and the list of references will not count as part of the 5 pages of text. All pages must be numbered. The paper is due on Wednesday, April 8, 2020. Students must also give an oral Power Point presentation of their work during class on April 13, 15 or 16, 2020. Presentations should last from 8-10 minutes and should be sent via email to the TA by April 12, 2020, so that they could be loaded into the computer in the classroom prior to the class time. A 10% reduction will be assessed for late hand-ins.

### Examples of food packaging topics are:

- A. Military packaging.
- B. Biodegradable and composting of packaging materials.
- C. What is circular packaging and how is it applied today?
- D. More topics will be given during the class.

**Academic integrity and collaboration:** Your written assignments, including discussion posts, should be your own original work. In formal assignments, you should follow [MLA/APA/Chicago etc.] style to cite the ideas and words of your research sources. You are encouraged to ask a trusted person to proofread your assignments before you turn them in but no one else should revise or rewrite your work.

## Class participations/Attendance

This type of course requires engagement from the students with the topics at hand. Each student will be individually assessed on how they engage throughout the semester in discussion by providing their opinions, bringing in contextually appropriate comments and examples, and supporting the learning environment by asking questions of their peers and guest speakers. All students are required to be present when other students are giving their Power Point presentations of their term papers. Students will lose participation points if their absence does not receive prior approval from the lecturer. At least once weekly a class attendance will be taken. Students who are absent when the attendance is taken will lose attendance points if their absence does not receive prior approval from the lecturer. If an emergency/illness prevents a student from attending a class or classes, and prior notice of the absence was not feasible, the lecturer must be notified as soon as possible. Evidence in support of the emergency/illness must be given to the lecturer.

## Late assignments

Late term paper submissions will receive a 10% reduction in points if received within one week after the due date. Term papers submitted in excess of one week late will not be accepted, except in cases of emergency/illnesses. In such cases, evidence to support the emergency/illness must be presented to the lecturer. The term paper will be due on April 8, 2021. Power Point presentations must be submitted by April 12, 2020. Late submissions will not be accepted, and the assignment will receive zero points, except as noted above for term papers.

## Grading scale

93–100: A  
90–92.9: A-  
87–89.9: B+  
83–86.9: B  
80–82.9: B-  
77–79.9: C+  
73–76.9: C  
70 –72.9: C-  
67 –69.9: D+  
60 –66.9: D  
Below 60: E

## Instructor feedback and response time

I am providing the following list to give you an idea of my intended availability throughout the course. Remember that you can call [614-688-4357 \(HELP\)](tel:614-688-4357) at any time if you have a technical problem.

- **Preferred contact method:** If you have a question, please contact me first through my Ohio State email address. I will reply to emails within **24 hours on days when class is in session at the university**.
- **Class announcements:** I will send all important class-wide messages through the Announcements tool in CarmenCanvas. Please check [your notification preferences](https://go.osu.edu/canvas-notifications) (go.osu.edu/canvas-notifications) to ensure you receive these messages.
- **Discussion board:** I will check and reply to messages in the discussion boards once mid-week and once at the end of the week.

- **Grading and feedback:** For assignments submitted before the due date, I will try to provide feedback and grades within **seven days**. Assignments submitted after the due date may have reduced feedback and grades may take longer to be posted.

## OTHER COURSE POLICIES

### Discussion and communication guidelines

The following are my expectations for how we should communicate as a class. Above all, please remember to be respectful and thoughtful.

- **Writing style:** While there is no need to participate in class discussions as if you were writing a research paper, you should remember to write using good grammar, spelling, and punctuation. A more conversational tone is fine for non-academic topics.
- **Tone and civility:** Let's maintain a supportive learning community where everyone feels safe and where people can disagree amicably. Remember that sarcasm doesn't always come across online.
- **Citing your sources:** When we have academic discussions, please cite your sources to back up what you say. For the textbook or other course materials, list at least the title and page numbers. For online sources, include a link.
- **Backing up your work:** Consider composing your academic posts in a word processor, where you can save your work, and then copying into the Carmen discussion.
- **Synchronous sessions:** During our Zoom sessions I ask you to use your real name and a clear photo of your face in your Carmen profile. During our full-group lecture time, you may turn your camera off if you choose. When in breakout rooms or other small-group discussions, having cameras and mics on as often as possible will help you get the most out of activities. You are always welcome to use the [free, Ohio State themed virtual backgrounds](http://www.osu.edu/downloads/zoom-backgrounds.html) (www.osu.edu/downloads/zoom-backgrounds.html). Remember that Zoom and the Zoom chat are our classroom space where respectful interactions are expected.

### Academic integrity policy

#### POLICIES FOR THIS ONLINE COURSE

- **Quizzes and exams:** You must complete the quizzes, midterm and final exams yourself, without any external help or communication.
- **Written assignments:** Your written assignments, including discussion posts, should be your own original work. In formal assignments, you should follow **[Journal of Food Science]** style to cite the ideas and words of your research sources. You are

encouraged to ask a trusted person to proofread your assignments before you turn them in—but no one else should revise or rewrite your work.

- **Reusing past work:** In general, you are prohibited in university courses from turning in work from a past class to your current class, even if you modify it. If you want to build on past research or revisit a topic you've explored in previous courses, please discuss the situation with me.
- **Falsifying research or results:** All research you will conduct in this course is intended to be a learning experience; you should never feel tempted to make your results or your library research look more successful than it was.

## OHIO STATE'S ACADEMIC INTEGRITY POLICY

Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the university's [\*Code of Student Conduct\*](#), and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the university's *Code of Student Conduct* and this syllabus may constitute "Academic Misconduct."

The Ohio State University's *Code of Student Conduct* (Section 3335-23-04) defines academic misconduct as: "Any activity that tends to compromise the academic integrity of the university or subvert the educational process." Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the university's *Code of Student Conduct* is never considered an excuse for academic misconduct, so I recommend that you review the *Code of Student Conduct* and, specifically, the sections dealing with academic misconduct.

**If I suspect that a student has committed academic misconduct in this course, I am obligated by university rules to report my suspicions to the Committee on Academic Misconduct.** If COAM determines that you have violated the university's *Code of Student Conduct* (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the university.

If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.

Other sources of information on academic misconduct (integrity) to which you can refer include:

- The Committee on Academic Misconduct web pages ([COAM Home](#))

- *Ten Suggestions for Preserving Academic Integrity* ([Ten Suggestions](#))
- *Eight Cardinal Rules of Academic Integrity* ([www.northwestern.edu/uacc/8cards.htm](http://www.northwestern.edu/uacc/8cards.htm))

## Copyright disclaimer

The materials used in connection with this course may be subject to copyright protection and are only for the use of students officially enrolled in the course for the educational purposes associated with the course. Copyright law must be considered before copying, retaining, or disseminating materials outside of the course.

## Safe and Healthy Buckeyes:

Health and safety requirements: All students, faculty and staff are required to comply with and stay up to date on all university safety and health guidance (<https://safeandhealthy.osu.edu>), which includes wearing a face mask in any indoor space and maintaining a safe physical distance at all times. Non-compliance will result in a warning first, and disciplinary actions will be taken for repeated offenses.”

## Counseling and Consultation Services/Mental Health (with added statement from David Wirt, the CFAES embedded counselor)

1. 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 Counseling and Consultation Services (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).
2. David Wirt, [wirt.9@osu.edu](mailto:wirt.9@osu.edu), is the CFAES embedded mental health counselor. He is available for new consultations and to establish routine care. To schedule with David, please call 614-292-5766. Students should mention their affiliation with CFAES when setting up a phone screening.

## Creating an environment free from harassment, discrimination, and sexual misconduct:

The Ohio State University is committed to building and maintaining a community to reflect diversity and to improve opportunities for all. All Buckeyes have the right to be free from harassment, discrimination, and sexual misconduct. Ohio State does not discriminate on the basis of age, ancestry, color, disability, ethnicity, gender, gender identity or expression, genetic information, HIV/AIDS status, military status, national origin, pregnancy (childbirth, false pregnancy, termination of pregnancy, or recovery therefrom), race, religion, sex, sexual orientation, or protected veteran status, or any other bases under the law, in its activities, academic programs, admission, and employment. Members of the university community also have the right to be free from all forms of sexual misconduct: sexual harassment, sexual assault, relationship violence, stalking, and sexual exploitation.

To report harassment, discrimination, sexual misconduct, or retaliation and/or seek confidential and non-confidential resources and supportive measures, contact the Office of Institutional Equity:

1. Online reporting form at [equity.osu.edu](https://equity.osu.edu),
2. Call 614-247-5838 or TTY 614-688-8605,
3. Or Email [equity@osu.edu](mailto:equity@osu.edu)

The university is committed to stopping sexual misconduct, preventing its recurrence, eliminating any hostile environment, and remedying its discriminatory effects. All university employees have reporting responsibilities to the Office of Institutional Equity to ensure the university can take appropriate action:

- All university employees, except those exempted by legal privilege of confidentiality or expressly identified as a confidential reporter, have an obligation to report incidents of sexual assault immediately.
- The following employees have an obligation to report all other forms of sexual misconduct as soon as practicable but at most within five workdays of becoming aware of such information: 1. Any human resource professional (HRP); 2. Anyone who supervises faculty, staff, students, or volunteers; 3. Chair/director; and 4. Faculty member.

This course adheres to The Principles of Community adopted by the College of Food, Agricultural, and Environmental Sciences. These principles are located on the Carmen site for this course; and can also be found at <https://go.osu.edu/principlesofcommunity>. For additional information on Diversity, Equity, and Inclusion in CFAES, contact the CFAES Office for Diversity, Equity, and Inclusion (<https://equityandinclusion.cfaes.ohio-state.edu/>). If you have been a victim of or a witness to a bias incident, you can report it online and anonymously (if you choose) at <https://studentlife.osu.edu/bias/report-a-bias-incident.aspx>.

**Lyft Ride Smart** (previously Safe Ride Program)

[Lyft Ride Smart at Ohio State](#) offers eligible students discounted rides, inside the university-designated service area, from 9 p.m. to 3 a.m. Each month, 10,000 discounted rides will be made available on a first-come, first-served basis with the average cost expected to be \$2 or less. Prices may be impacted by distance, traffic, time of day, special events and prime time surcharges. To qualify for program discounts, users must select "shared ride" when booking in the Lyft app. When using ride sharing, remember to visually confirm vehicle info/descriptions in the company app and ask the driver to say who they are picking up.

## ACCESSIBILITY ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

### Disability Accommodations (with COVID19 language)

The university strives to make all learning experiences as accessible as possible. In light of the current pandemic, students seeking to request COVID-related accommodations may do so through the university's request process, managed by Student Life Disability Services. 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.

### Accessibility of course technology

This online course requires use of Carmen (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations with your instructor.

- [CarmenCanvas accessibility](#)
- Streaming audio and video
- [CarmenZoom accessibility](#)
- Collaborative course tools

## COURSE SCHEDULE

Week	Dates	Topics, Readings, Assignments, Deadlines
<b>1</b>		<b>Introduction to food packaging; Packaging materials</b>
	1/11 M	Introduction to Food Packaging
	1/13 W	Introduction to Food Packaging
	1/14 TH	Plastic Packaging
<b>2</b>		<b>Packaging Materials (chemistry, morphology and physical characteristics)</b>
	1/18 M	MLK Holiday (No class)
	1/20 W	Plastic Packaging
	1/21 TH	Plastic Packaging
<b>3</b>		<b>Metal Packaging Fabrication, Closures and Integrity</b>
	1/25 M	Metal Packaging
	1/27 W	Metal Packaging
	1/28 TH	Laboratory Exercise #1 (Metal Packaging), Quiz #1
<b>4</b>		<b>Glass Packaging Fabrication, Closures and Integrity</b>
	2/1 M	Glass Packaging
	2/3 W	Glass Packaging
	2/4 TH	Laboratory Exercise #2 (Glass Packaging)
<b>5</b>		<b>Plastic Packaging, Closures</b>
	2/8 TH	Closures (including tamper evident and child resistant)
	2/10 W	Closures
	2/11 TH	Laboratory Exercise #3 (Plastic Packaging)
<b>6</b>		<b>Paper Packaging</b>
	2/15 M	<b>*Midterm Exam*</b>
	2/17 W	Paper and composite packaging
	2/18 TH	Virtual Field Trip #1
<b>7</b>		<b>Shelf life and Food Packaging</b>

	2/22 M	Packaging/product interactions
	2/24 W	<b>First Spring Break (No class)</b>
	2/25 TH	Problem solving exercises #1. Shelf life determination
<b>8</b>		<b>Shelf life and Food Packaging</b>
	3/1 M	Shelf life determination
	3/3 W	Shelf life determination
	3/4 TH	Laboratory Exercise #4 (Shelf life determination)
<b>9</b>		<b>Modified and Active Packaging</b>
	3/8 M	Gas permeation
	3/10 W	Modified atmosphere packaging
	3/11 TH	Smart packaging
		<b>Active Packaging/Mass Transfer in Packaging</b>
	3/15 M	Active packaging
	3/17 W	Chemical migration and food safety (FDA regulations)
	3/18 TH	Virtual Field Trip #2
<b>10</b>		<b>Mass Transfer in Packaging/Filling Machines</b>
	3/22 M	Chemical sorption and food quality
	3/24 W	Package filling machines
	3/25 TH	Virtual Field Trip #3
<b>11</b>		<b>Aseptic Processing</b>
	3/29 M	Aseptic packaging and processing
	3/31 W	<b>Second Spring Break (No Class)</b>
	4/1 TH	<b>Second Spring Break (No Class)</b>
<b>12</b>		<b>Packaging Color Psychology</b>
	4/5 M	Package and color psychology
	4/7 W	Quiz #2
	4/8 TH	Virtual Field Trip #4

<b>13</b>		<b>Review Sessions</b>
	4/12 M	Course review
	4/14 W	Course review
	4/15 TH	<b>Midterm examination #2</b>
<b>14</b>		<b>Oral Presentations</b>
	4/19 M	Oral Presentations
	4/21 W	Oral Presentations
	4/22 TH	Oral Presentations
<b>15</b>	5/3	<b>Final Examination (6:00 PM – 7:45 PM)</b>