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## Principles of Packaging

### PKG3001 Section 1478

**Class Periods:** MWF | Period 3 | 9:35 A.M. – 10:25 A.M.

**Location:** ROG 283

**Academic Term:** Fall 2023

### Instructor

Dr. William Pelletier

wpelletier@ufl.edu

(352) 294-6701

Office Hours: MWF 10:30 A.M. – 11:30 A.M. & and by appointment

Office Location: 101 Frazier Rogers Hall

### Teaching Assistant

TBD

### Course Description

Focuses on the materials, uses, functions and production processes of packaging. Topics include an industry overview and related applications as well as the historical, societal and technological drivers of packaging and how end-users decide on the product/package combination they use for their product and the impact these choices make on the product's market success.

*3 Credits*

### Course Co-Requisites

N/A

### Course Objectives

Students, upon completing this course, will be able to:

1. Explain the critical role of packaging systems.
2. Analyze the packaging industry, current and future trends.
3. Explain packaging materials in use.
4. Describe converting operations for packaging materials.
5. Form an opinion on the environmental issues related to packaging and society.
6. Understand packaging laws and regulations.

This course will help students develop their ability to: 2. apply both analysis and synthesis in the engineering design process, resulting in designs that meet desired needs; 3. communicate effectively with a range of audiences; 4. recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts; 5. function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty; 7. recognize the ongoing need for additional knowledge and locate, evaluate, integrate, and apply this knowledge appropriately.

The course will consist of three (3) lectures per week, quizzes, projects and examinations.

### Materials & Supply Fees

N/A

## Relation to Program Outcomes (ABET)

Outcome	Coverage*
1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics	
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors	Low
3. An ability to communicate effectively with a range of audiences	Medium
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts	Medium
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives	Low
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions	
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies	Medium

\* Coverage is given as high, medium, or low. An empty box indicates that this outcome is not covered or assessed in the course.

## Required Textbook & Software

*No Required Textbook - Course Notes Developed by the Instructor*

## Optional Textbook

Soroka, Walter. 2014. Fundamentals of Packaging Technology 5th Edition. Institute of Packaging Professionals, Naperville, IL, U.S.A. 748 p.

## Course Schedule (subject to change)

Week 1	23-Aug	25-Aug	M W F	<b>No Class</b> Syllabus Packaging Functions	Week 9	16-Oct	20-Oct	M W F	Metal Cans & Containers Glass Packaging Glass Packaging
Week 2	28-Aug	1-Sep	M W F	Packaging Functions Packaging Functions Packaging Functions	Week 10	23-Oct	27-Oct	M W F	Review Introduction to Polymers <b>Exam 2</b>
Week 3	4-Sep	8-Sep	M W F	<b>Labor Day</b> Packaging Functions Graphic Design	Week 11	30-Oct	3-Nov	M W F	Introduction to Polymers Shaping Plastics Shaping Plastics
Week 4	11-Sep	15-Sep	M W F	Graphic Design Graphic Design Printing & Decorating	Week 12	6-Nov	10-Nov	M W F	Shaping Plastics Plastic Applications <b>Veterans Day</b>
Week 5	18-Sep	22-Sep	M W F	Printing & Decorating Printing & Decorating Review	Week 13	13-Nov	17-Nov	M W F	Plastic Applications Corrugated Fiberboard Corrugated Fiberboard
Week 6	25-Sep	29-Sept	M W F	Paper & Paperboard <b>Exam 1</b> Paper & Paperboard	Week 14	20-Nov	24-Nov	M W F	Corrugated Fiberboard <b>Thanksgiving</b> <b>Thanksgiving</b>
Week 7	2-Oct	6-Oct	M W F	Paper & Paperboard Paperboard Cartons <b>Homecoming</b>	Week 15	27-Nov	1-Dec	M W F	Review <b>Exam 3</b> <b>Student Presentation</b>
Week 8	9-Oct	13-Oct	M W F	Paperboard Cartons Metal Cans & Containers Metal Cans & Containers	Week 16	4-Dec	8-Dec	M W F	<b>Student Presentations</b> <b>Student Presentations</b> <b>Reading Day</b>

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## Attendance Policy, Class Expectations, and Make-Up Policy

- Attendance (on time) at lectures is expected from all students at all times. Attendance accounts for 10% of your final grade and will be monitored using a sign-in sheet. Students will be warned if they are late at several occasions. Following a second warning, late attendances will be counted as missed lectures.
- Specific directives will be provided for each assignment, but, in all cases, they will have to be submitted online through Canvas. In most instances, homework assignments and project reports must be turned in before class begins. Assignments submitted late, before 4:00 P.M. on the day they were due, will be marked down by 10% of their total. Assignments submitted late before 4:00 P.M. on the following day will be marked down by 50% of their total (assignments must be submitted through Canvas). No assignment will be accepted after 4:00 P.M. on the following day. **For all online submissions, it is the student's responsibility to ensure that the correct file is uploaded on Canvas and a late submission penalty may be applied.** If technical difficulties with Canvas were to occur, students can email the file to [wpelletier@ufl.edu](mailto:wpelletier@ufl.edu) to avoid a late submission (if you email a copy, also upload a "late" copy in Canvas). Deadlines for assignments may change, please always follow directives provided for each assignment in Canvas.
- No make-up exams or quizzes will be given except for valid medical reasons or unless prior arrangements have been made.
- Exams will be taken in-person during our regular lecture time
- Excused absences must be consistent with university policies in the undergraduate catalog (link provided in the next item) and require appropriate documentation.
- Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies. Click here to read the university attendance policies:  
<https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/>

## Evaluation of Grades

Assignments	Percentage of Final Grade
Exams (tentative dates: 9/27, 10/27 & 12/01 at 9:35 A.M.)	60% (20% each)
Homework Assignments, Quizzes & Discussions	15%
Project & Presentation	15%
Attendance	10%
TOTAL	100%

## Grading Policy

Percent	Grade	Grade Points
[90 – 100%]	A	4.00
[87 – 90%[	A-	3.67
[84 – 87%[	B+	3.33
[80 – 84%[	B	3.00
[77 – 80%[	B-	2.67
[74 – 77%[	C+	2.33
[70 – 74%[	C	2.00
[67 – 70%[	C-	1.67
[64 – 67%[	D+	1.33
[60 – 64%[	D	1.00
[57 – 60%[	D-	0.67
[0 – 57%[	E	0.00

More information on UF grading policy may be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

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**Students Requiring Accommodations** Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

**Course Evaluation** Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

**In-Class Recording** Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include laboratory sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

**University Honesty Policy** UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Conduct Code (<https://sccr.dso.ufl.edu/process/student-conduct-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TA in this class.

**Commitment to a Safe and Inclusive Learning Environment** The Herbert Wertheim College of Engineering values varied perspectives and lived experiences within our community and is committed to supporting the University’s core values, including the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information, and veteran status.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:

- Your academic advisor or Graduate Program Coordinator
- HWCHE Human Resources, (352) 392-0904, [student-support-hr@eng.ufl.edu](mailto:student-support-hr@eng.ufl.edu)
- Curtis Taylor, Associate Dean of Student Affairs, (352) 392-2177, [taylor@eng.ufl.edu](mailto:taylor@eng.ufl.edu)
- Toshikazu Nishida, Associate Dean of Academic Affairs, (352) 392-0943, [nishida@eng.ufl.edu](mailto:nishida@eng.ufl.edu)

**Software Use** All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the

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individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

**Student Privacy** There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: <https://registrar.ufl.edu/ferpa.html>

## **Campus Resources**

### Health and Wellness

#### **U Matter, We Care:**

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact [umatter@ufl.edu](mailto:umatter@ufl.edu) so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at (352) 392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

**Counseling and Wellness Center:** <https://counseling.ufl.edu/>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

#### **Sexual Discrimination, Harassment, Assault, or Violence**

If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the *Office of Title IX Compliance*, located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, [title-ix@ufl.edu](mailto:title-ix@ufl.edu)

**Sexual Assault Recovery Services (SARS)** Student Health Care Center, 392-1161.

**University Police Department** at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>.

### Academic Resources

**E-learning technical support**, (352) 392-4357 (select option 2) or e-mail to [Learning-support@ufl.edu](mailto:Learning-support@ufl.edu).  
<https://lss.at.ufl.edu/help.shtml>.

**Career Connections Center**, Reitz Union, 392-1601. Career assistance and counseling. <https://career.ufl.edu>.

**Library Support**, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.

**Teaching Center**, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.  
<https://teachingcenter.ufl.edu/>.

**Writing Studio**, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers.  
<https://writing.ufl.edu/writing-studio/>.

#### **Student Complaints Campus:**

<https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>;

<https://care.dso.ufl.edu>.

**On-Line Students Complaints:** <http://www.distance.ufl.edu/student-complaint-process>.