

14:731:545 Packaging and the Environment  
Packaging Engineering Program, School of Engineering  
Rutgers University – New Brunswick, New Jersey

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Instructor: Euihark Lee  
E-mail: [euihark@rci.rutgers.edu](mailto:euihark@rci.rutgers.edu)  
Office: CoRE 603 (732-445-3224)  
Course Time: Online course:  
Course Website: <http://sakai.rutgers.edu>  
Course Descriptions: This course is focusing environmental issues for packaging industry. It will be covered the life cycle of major packaging materials such as paper, polymer, glass and metal and studied environmental impact of each life cycle stage for each materials.

Course Schedule:

| Week | Description                            |
|------|--|
| 1    | Introduction and course over view      |
| 2    | Environmental Indicators               |
| 3    | Life cycle and of Polymer 1            |
| 4    | Life cycle of Polymer 2                |
| 5    | Life cycle of Polymer 3                |
| 6    | 1 <sup>st</sup> midterm presentation   |
| 7    | Life cycle of Paper                    |
| 8    | Life cycle of Metals                   |
| 9    | Life cycle of Glass                    |
| 10   | 2 <sup>nd</sup> midterm presentation   |
| 11   | SPC sustainable packaging design guide |
| 12   | Design for recovery 1                  |
| 13   | Design for recovery 2                  |
| 14   | Final Project Presentation             |

- The lecture materials will be given every Thursday 5PM
- Midterms and final project presentation will be online conference type, so you should be

|                 |                          |     |
|-----------------|--------------------------|-----|
| Grading Policy: | Assignment               | 30% |
|                 | 1 <sup>st</sup> Midterm: | 20% |
|                 | 2 <sup>nd</sup> Midterm: | 20% |
|                 | Final Project:           | 20% |
|                 | Forums (discussion)      | 10% |

**Assignment:** Assignment will be given based on the course materials. It could be report (word) or presentation (ppt) types.

**Midterm & Final Project papers:** The topic will be given, and it will be asked to submit as research paper format

**Discussion:** The topic will be assign on the sakai. The participation for the discussion will be counted for the grade.

\*\*\* During the semester, there might be some adjustments of assignments, grades, extra credits, etc. Those will be announced on the course website. The "Grading Policy" in the above table will be adjusted accordingly.