

16:731:512 Packaging Distribution and Dynamics.
Packaging Engineering Program, School of Engineering
Rutgers University – New Brunswick, New Jersey

Instructor: Euihark Lee

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Office: CoRE 603 (732-445-3224)

Course Time: Thursday 6:40pm ~ 9:30pm

Office Hour: Thursday 5:00pm ~ 6:00pm

Class Location: SEC-206

Course Textbook: Fundamentals of Packaging Dynamics, Brandenburg and Lee, LAB

Course Website: <http://sakai.rutgers.edu>

Course Descriptions: This course is focused on dynamic behavior for packaging distribution. It is covered fundamental dynamic theories such as acceleration, vibration, mechanical shock and other dynamic behavior.

Course Schedule:

Week	Description	Assignment
1	Introduction	Homework and report will be assigned in class
2	Vibration	
3	Forced vibration and product sensitivity	
4	Damped vibration and vibrations in distribution	
5	Mechanical Shock	
6	Shock in distribution	
7	Product Fragility and Cushion Design	
8	Midterm	
9	Distribution Testing I	
10	Distribution Testing II	
11	Dynamic Modeling and Simulation I	
12	Dynamic Modeling and Simulation II	
13	ASTM test standards	
14	No Class	

Grading Policy: Homework : 30%

Midterm: 30%

Final Exam: 40%

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