



HANYANG UNIVERSITY

2018 HISS Syllabus (Statics)

Professor:	Chi-Wook Lee
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Home Univ.:	University of the Pacific
Dept.:	Mechanical Engineering

Description:	The fundamental principles of static equilibrium resulting from the application of forces on particles and bodies.
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Objective:	<p>After the completion for the course, students should be able to</p> <ul style="list-style-type: none"> • Draw, interpret, and use free-body diagrams, • Apply the principles of equilibrium; incorporate forces and moments to solve equilibrium problems, • Analyze simple frames, machines, and trusses using the principles of equilibrium, Calculate centroids and moments of inertia.
Preparations:	<p><i>Prerequisites: Calculus II and Principle of Physics I.</i> Textbook: Vector Mechanics for Engineers: Statics by Beer, et al., 10th Edition. McGraw Hill</p>

Schedule:	Week 1	Introduction, Units, Vectors , Forces, free body diagrams
	Week 2	Moments, couples, Equivalent systems, force system applications • Test 1
	Week 3	Trusses, Frames and Machines • Test 2
	Week 4	Centroids and composite areas, Moments of Inertia • Test 3

Evaluation:	Midterm (%)	Final (%)	Attendance (%)	Assignments (%)	Participation (%)	Etc. (%)
	30	30	30	0	10	00

Hanyang International Summer School

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