

## *[IEE2082-01] Introduction to Computer Graphics*

<b>CREDIT</b>	3	<b>INSTRUCTOR</b>	Jin-Kook Lee
<b>OFFICE</b>	#522 Samsung Hall	<b>OFFICE HOURS</b>	Online, on-demand
<b>TIME</b>	video lecture	<b>CLASSROOM LOCATION</b>	video lecture [LearnUs]
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\* Please leave the fields blank which haven't been decided yet.

### [COURSE INFORMATION]

<b>COURSE DESCRIPTION &amp; GOALS</b>	As the demand for digital visualization is rapidly growing, there is a need to learn about computer graphics. Today, industries such as animations, games, movies, advertising, architecture, and many other fields are no longer sustainable without computer graphic technologies. With the development and broader utilization of digital visualization, there is a growing need to develop basic knowledge of computer graphic technology. This course aims to review basic computer graphic tools and then introduce various techniques for creative visual expression for a wide range of applications.
<b>PREREQUISITE</b>	None: This course is for beginners. No previous experience / knowledge of computer graphic is needed
<b>COURSE REQUIREMENTS</b>	General and fundamental skills on computing
<b>GRADING POLICY</b>	Attendance 20% (check online & on-demand), Exercises 20%, Mid-project and or assignment 20%, Final project 20%, Overall qualitative evaluation 20%
<b>TEXTS &amp; REFERENCES</b>	Lecture slides given by instructor
<b>INSTRUCTOR'S PROFILE</b>	<p>Jin Kook Lee, Ph.D., Associate Professor, Space &amp; Design IT Lab., Dept. of Interior Architecture &amp; Built Environment, Col. of Human Ecology, Yonsei University. Contact: <a href="http://designitlab.kr">http://designitlab.kr</a>   <a href="mailto:leejinkook@yonsei.ac.kr">leejinkook@yonsei.ac.kr</a>   +82-2-2123-3134</p> <p>Bio: Jin Kook Lee is a researcher and developer in the field of Design Computing - the intersection of design and computation. He pursues "better environment" using computing technologies based on his interdisciplinary studies in Housing &amp; Interior Design, Digital Design Media, Computer Science, and Architecture. Building Information Modeling (BIM) and AI &amp; Design are his research directions that have been explored in his studies and recent research and development projects.</p> <ul style="list-style-type: none"> <li>- Academic degree: B.S. and M.S. received from Yonsei University, Ph.D. from Georgia Institute of Technology</li> <li>- Industry experiences: Hanssem Co. Ltd., Autodesk Inc. at San Francisco</li> <li>- Academia experiences: Researcher of Digital Building Lab at Georgia Tech, Professor at Hanyang University</li> </ul>

**[WEEKLY SCHEDULE]**

\* Your detailed explanation would be very helpful for prospective students to get a pre-approval for credit-transfer from their home university in advance.

WEEK	DAILY TOPIC & CONTENTS	COURSE MATERIAL & ASSIGNMENTS	REFERENCE
1	Intro to the course	- Adobe CC setup - Installing Adobe CC apps	
	Image editing – Lightroom	- Light Room - Editing Night Scene, Dark image	
	Take good pics – Photography	- Lr: Stylize image, Tilt-shift effect - Questions	
	Raster graphics – Photoshop	- Photoshop: Night scene, Dark image	
	Selections, Layers & Effects	- Ps: Selections, Layers and Effects - Photoshop Filters - Ps: Painting style & Composition	
2	2D Computer Graphics	- Vector-style image editing	
	CG & Design Computing	- Ps: Typography Logo design - Card design - Questions	
	Vector graphics – Illustrator	- Illustrator: Vector Icons & Symbols - Ai: Drawing a Symbol	
	Raster & Vector Graphics	- Ai: Pathfinder's Boolean operation & Icons drawing - 3d-looking text cubes	
	Advances & Applications in CG	- 3d text effects in Ai & Ps - Ai: Image Tracing	
3	Typography, Color & Layout	- AI-assisted Logo Graphic Design - Ai: Vector Pattern-making - Page layout & Slideware - Questions	
	Slideware & Presentation	- Slideware: CG Portfolio example	
	Slideware – Adobe Express	- Mosaic App example	
	CG Portfolio	- Slideware: Portfolio design - Video Presentation of Portfolio - References of Portfolio	
	Final	- Project	