

Curriculum of the KU lighting program

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1.1 The architectural lighting curriculum

The architectural lighting curriculum is located in the Architectural Engineering program in the Department of Civil, Environmental and Architectural Engineering. It offers lighting courses with up to 27 credit hours, as listed in Table 1. The lighting professor is Dr. Hongyi Cai, associate professor in Architectural Engineering Program.

Table 1 Courses offered in the architectural lighting curriculum (new courses are bolded)

Course #	Course title	Target students	Hours	Semester
ARCE 650	Illumination Engineering	Undergraduate	3	Spring
ARCE 698	ARCE Comprehensive Design Project – Lighting and Electrical portion	Undergraduate	3	Spring
ARCE 751	Advanced Lighting Design	Graduate /undergraduate	3	Spring
ARCE 750	Daylighting	Graduate /undergraduate	3	Fall
ARCE 752	Lighting Measurement and Design (LAB course)	Graduate /undergraduate	3	Fall
ARCE 690	Special Problems (lighting)	Graduate /undergraduate	3	Spring/Fall
ARCE 700	Directed Reading in Lighting	Graduate	3	Spring/Fall

1.2 The building environmental systems design curriculum

In the KU architecture program, lighting is part of the building environmental systems design curriculum, with a focus on design. Dr. Jae Chang is an associate professor in building environmental systems. He has been teaching two environmental systems design courses as listed in Table 2. ARCH 531 — Environmental Systems II covers topics such as daylighting, electrical lighting systems, building acoustics, electrical power distribution systems, alternative energy sources, communication systems, and transportation systems.

Table 2 Courses offered in the Building Environmental Systems Design curriculum

Course #	Course title	Target students	Hours	Semester
ARCH 530	Environmental Systems I	Undergraduate/Graduate	3	Spring
ARCH 531	Environmental Systems II	Undergraduate/Graduate	3	Fall

1.3 The theatrical lighting design curriculum

The theatrical lighting design curriculum is part of the theatre design program in the Department of Theatre. Theatrical lighting applies the craft of lighting to the production of theatre, dance, opera, and other performance arts, with a focus on psychology and special lighting effects. Table 3 is a list of courses taught in the theatrical lighting curriculum by professor Mark Reaney. Students learn through small-class studio courses, laboratories, and involvement in productions in the University Theatre. THR 224 — Lighting Production covers

most areas of conventional stage lighting from installation to operation and introduces them to design theories and applications. THR — Beginning Lighting Design for Theatre, Film and Video covers techniques of designing lighting for various stage forms, creative planning and projection of designs for specific productions, the fundamentals of learning how to see, exploring the mind's eye, and painting with light, as well as lighting atmospheres, etc. The theatrical lighting design is also in the guise of independent studies (THR 499) or integrated into classes that also study scenic and costume design (THR 518, 519, 719, 819).

Table 3 Courses offered in the theatrical lighting design curriculum

Course #	Course title	Target students	Hours	Semester
THR 224	Lighting Production	Undergraduate	2	Spring/Fall
THR 324	Beginning Lighting Design	Undergraduate	3	Fall
THR 499	Directed Study in Theatre	Undergraduate	1-6	Spring/Fall
THR 518	Scenography & the Classic Script	Undergraduate/Graduate	3	Spring
THR 519	Scenography & the Modern Script	Undergraduate/Graduate	3	Fall
THR 719	M.F.A. Production Seminar	Graduate	3	Spring/Fall
THR 819	Advanced MFA Production Seminar	Graduate	3	Spring/Fall