COURSE OBJECTIVES
This course offers a comprehensive introduction to electric lighting, from the physics of light, lamp technology, and luminaire specification to integrated lighting design. To develop a comprehensive understanding of the luminous environment, students will complete a series of design exercises. These exercises will include the design and construction of a physical luminaire as well as the integrated design of an interior space using digital tools to measure, test, and represent design schemes. Content lectures and critiques will be supported by invited guests from the lighting design profession. Course content will cover the physics of light, the history of lamp technology, technical specifications of electric sources, the relationship between color/transmission/distribution and space, and approaches for integrated lighting design.

LOGISTICS
This course will meet twice a week with lectures, presentations, discussions, design critiques, and working sessions. Students are required to purchase "The Fundamentals of Lighting (4th edition)," by Susan Winchip. Graded or P/NP.

* A 1-credit course is offered in parallel to fulfill the advanced technology elective requirement for architecture: ARCH 405/605 Sp. Electric Lighting (CRN: 10243/10352)