course name and number:  
**IARC 492/592 ELECTRIC LIGHTING**

crn 22842/22849  
instructor: Virginia Cartwright

meeting time and place:  
18:00 - 20:50, Thursday  
tba Lawrence

meeting format:  
seminar (lectures, discussions, presentations,  
design projects with reviews, work sessions)

credit hours and grading:  
Graded or P/NP 3 credits**

course objectives:  
The goal of the course is to develop skill in the design of  
the luminous environment using electric lighting, and in the  
design integration of electric light sources and architectural  
space. The vehicles for this will be 2 design projects and related  
topical lectures. This course will require the active participation  
of all students in lecture/discussions, readings and project  
presentations. Each of the two projects will be taken through a  
defined design process including: concept identification:  
development of lighting design strategies; lamp and luminaire  
specifications; calculations; and, representation.

course content/study vehicles:  
- visual perception  
- physics of light  
- principles and effects of light sources  
- color and light in the built environment  
- relationship between light and space  
- design projects  
- photography, drawings, models  
- readings

texts/primary reading list:  
There will be assigned readings from the  
books on reserve in the AAA Library.  
Manufacturers catalogues are available in  
the IARC Materials Room, the MRC and  
the Library.

**A 1-credit course will offered concurrently to fulfill the advanced technology elective requirement.