

THE RMLA TECHNICAL COURSE

You should take this course if you work in . . .

- product development or manufacturing and want more depth in vision, color, optics and photometry
- technical sales and want to better understand the basis for many of the technical terms and metrics used in lighting
- electrical engineering or technically-oriented lighting design consulting firms and want to better balance the technical aspects of lighting with the design aspects

You should take this course because you want to . . .

- gain a deeper understanding of the fundamentals of visual performance, visual perception, photometry, color and optics, including an overview of non-visual effects of light
- acquire hands-on experience with photometric measurements
- explore the foundations and applications of important lighting metrics, including the new IES TM-30 color metrics
- sharpen your software skills through hands-on experience with popular software packages
- learn the latest about emerging lighting technologies, such as LED luminaires and lighting controls
- gain an appreciation for lighting design and the aesthetics of light

This may not be the right course for you if . . .

- you are a designer who is primarily interested in the art of lighting
- you love hands-on creative mock-ups but don't enjoy calculations and analyses
- you are a highly experienced optical engineer working in lighting with a good grasp of important lighting metrics (but then again, a refresher never hurts!)

Course details (see next page for full schedule)

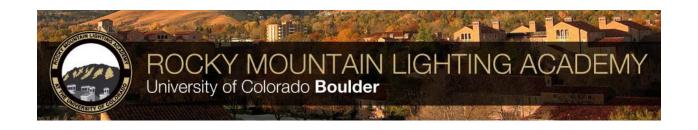
Course begins at 8:30 AM on Thursday (breakfast available at 8:00 AM)

Course ends at 1:00 PM on Sunday (travel from DIA should not be scheduled before 3:00 PM)

Coffee and pastries, break snacks and lunch included

Evening reception and farewell lunch included

Additional information: http://www.colorado.edu/rmla/



THE RMLA TECHNICAL COURSE - OVERVIEW OF SCHEDULE

Thursday

8:00 AM Course begins

Welcome and introductions

Delivering light to people: An overview of the lighting industry

Light, vision and perception

Hands-on visual perception exercise in CU Campus buildings

Light and color: New metrics

Light and health: Non-visual effects of light

6:00 PM Informal gathering at a downtown Boulder venue

Friday

8:30 AM Photometry introduction

Sources, luminaires and controls

Photometry: A deeper dive into technical performance data

Hands-on lighting measurement exercise

7:00 PM Group dinner

Saturday

8:30 AM Introduction to the aesthetics of light

Hands-on lighting aesthetics exercise

Hands-on modeling luminaire performance using simulation software

Lighting design process: Turning a concept into reality
Aesthetics of light student presentations and discussion

7:00 PM Free evening

Sunday

8:30 AM Hands-on work on luminaire optics project

Course wrap-up and discussion; lunch

1:00 PM Adjourn

Italicized topics are active learning sessions that require students to participate and complete an assignment.