

**Rochester Institute of Technology
Center for Imaging Science
1050-702-01/1051-775-01 APPLIED COLORIMETRY
WINTER 2006**

INSTRUCTOR:

R. Berns, X-2230, 18-1087, berns@cis.rit.edu

TEACHING ASSISTANT:

TBD

REQUIRED TEXTBOOK:

R. S. Berns, *Billmeyer and Saltzman's Principles of Color Technology*, 3rd edition, John Wiley, New York, 2000.

The text can be purchased directly from the Munsell Lab.

The entire text is required reading for the course. The course will focus on chapters 1 – 4 and appropriate sections in the Appendix. Chapters 5 and 6 will be covered in greater detail in the Color Modeling course.

GRADING:

Homework	50%
Examinations	40%
Discussion participation	10%

A note about collusion and cheating: Students are certainly encouraged to discuss the homework and help each other. However, each student must perform his or her own calculations, develop their own software, etc. If it is discovered that programs are being shared or other unethical practices, the students involved will receive zeros on that assignment. If this occurs more than once, the students will receive "F" grades in the course.

COURSE DETAILS:

The course has two lectures per week (approximately). These are the general topics (corresponding to Keynote lectures)
Light sources, color vision, colorimetry, more colorimetry, linear transformations in color technology, CIELAB, color differences, metamerism, color inconstancy, color management.

There are approximately eight homework computations.