**CLRS-600 Fundamentals of Color Science**

A Summer 2018 Online Course open to Non-Degree students from around the world

May 17, 2018 - August 8, 2018
You complete the work within the summer term on your schedule.

Earn 3 Graduate-Level Credit Hours (May be audited for learning only)

**For Credit-seeking learners**
- Non-Degree Online Students will receive the RIT Online Graduate tuition rate
- To enroll for this course, you will need to complete your request through RIT Online. Please follow this link: https://www.rit.edu/ritonline/course/2168-1-CLRS-600-01 and click “Enroll”

**For Audit learners**
- Non-Degree Online Students can audit for 50% of the standard tuition rate
- No credit granted, No work graded
- To enroll for this course, you will need to complete your request through the Registrar. Please follow this link: https://www.rit.edu/academicaffairs/registrar/forms.html and download the “Non-Degree Enrollment”. You will then need to submit the form through mail, email, or fax to the Registrar.

Open to RIT graduate students in STEM programs and non-matriculated students with technical backgrounds (permission required to register).

**Course Description:**
**COS-CLRS-600 Fundamentals of Color Science**

This asynchronous online course provides a technical introduction to color science and the CIE system of colorimetry. Topics covered include color perception, color measurement, color spaces, and applications. The course is intended for students with a technical background who are interested in adding an elective course in color science to their graduate program and for practitioners in the color field interested in a more thorough understanding of the science behind colorimetry. Cannot be taken for program credit by Color Science MS and PhD students. (Prerequisite: Bachelor’s degree in a STEM discipline or permission of instructor) **Online, Credit 3 (Summer)**
Course topics

- Color ‘triangle’
  - Light sources, sensors, objects
- Color order systems
  - Munsell
  - NCS
- Vision
  - Color vision – the Retina,
  - Color vision – Higher Level Perception
  - Spatial vision – Optics of the Eye
- Light
  - Daylight, CCT
  - Light sources
- Colorimetry
  - Color Matching Functions and
    Tristimulus Values
  - Chromaticity
- Color measurement
  - Radiometers, Monochromators
  - Spectrophotometers
  - Accuracy and precision (repeatability)
- Uniform color spaces
  - CIELUV and CIELAB
- Color difference metrics
  - CIELAB DE, CIE DE94
  - CIE DE2000
- Color adaptation
  - von Kries adaptation
- Color appearance
  - Color appearance phenomena
  - CIECAM02
- Color imaging
  - Capture
Instructors: The course will be coordinated and taught by Profs. Susan Farnand and Michael Murdoch of the RIT Program of Color Science and Munsell Color Science Laboratory.

Summer 2017 Enrollment: https://www.rit.edu/ritonline/course/2168-1-CLRS-600-01

For additional information on how to register, see:
https://www.rit.edu/emcs/ptgrad/parttime_questions.php

FAQ for Non-Matriculated Students:
Can I take classes at RIT without being officially admitted to a degree program?
Yes. To take a class at the graduate level on a non-matric status usually requires permission from the dept. To take a class at the undergraduate level on a non-matric status usually requires completion of any pre-requisite OR a professor's approval. In both cases you must wait for the matriculated students to register for classes and then it is open registration for any non-matriculated students.

How do I sign up for a class as a non-matriculated student?
To complete a registration form for classes as a non-matriculated student, complete the Non-Degree Enrollment form through the Registrar’s office.

For More Information:
Contact Valerie Hemink for more information or help in registering. <vihpci@rit.edu>  585-475-7189