

# IMAGING AND PHOTOGRAPHIC TECHNOLOGY

<http://cias.rit.edu/>

## PROGRAM OVERVIEW FOR EMPLOYERS

Imaging and Photographic Technology is a unique program that immerses students in explorations using photography, imaging and applied technology. Graduates are interdisciplinary with a wide range of skills leading to opportunities in technical photography and imaging-related fields. The program includes studies in traditional and specialized photographic applications, color measurement, color management, imaging systems and digital image manipulation. The program also includes a co-op requirement that enhances knowledge acquired in the classroom. Graduates are prepared for careers in imaging fields with companies such as NASA, Canon, Edmund Optics, Hewlett-Packard, Ball Aerospace, the National Geospatial Agency along with becoming self-employed photographers and web designers.

### Degree(s) Awarded

Bachelor of Science

### Enrollment

Approximately 36 students are enrolled.

### Cooperative Education Component

Students are required to complete at least two co-op work assignments.

### Salary Information (Avg/Range)

Co-op:	\$12.56	\$8.00 - \$22.80
BS:	\$57,850	\$41,800 - \$73,900

### Equipment & Facilities

Digital imaging and reproduction equipment  
 Color measurement and color management equipment  
 Photoinstrumentation and High Speed Photography  
 Microscopy  
 Francis Chemistry Lab  
 DIP Computer Imaging  
 Scanning Electron Microscopy  
 Traditional Studios/Darkrooms

### Student Skills & Capabilities

- Skilled in the use and characterization of both digital and analog film systems in either a studio or lab setting
- Experienced in color measurement procedures with a variety of instruments and material types
- General knowledge of geometrical optics as applied to photographic systems, lens testing and evaluation procedures
- General knowledge of image editing and image manipulation
- Knowledge of imaging systems workflows
- Experience in color management of cameras, monitors and printers  
 Strong knowledge in digital image processing, technology and application of DIP equipment  
 Experience with microflash equipment, high-speed intermittent and rotating prism film and digital cameras, synchroballistic cameras, streak cameras, and others
- Skills in UV and IR Imaging, and 3D Photography
- Imaging software including: Adobe Creative Suite, IDL, and Final Cut Pro, Microsoft Office and others.

# Imaging and Photographic Technology

## Course Sequence BS degree

### First Year:

Photography I, II, III  
Materials & Processes of Photography I, II, III  
College Algebra and Trig  
Calculus for Technologists I  
Data Analysis  
Liberal Arts  
Physical Education

### Second Year:

(depending on year of enrollment)  
Applied Science Photography I & II  
IDL Programming  
Photographic Sensitometry  
Photographic Chemistry  
Photographic Optics  
Layout and Design of Media  
Human Vision and PsychoPhysics  
Color Measurement  
College Physics and College Physics Lab  
Liberal Arts  
Physical Education  
Cooperative Education (Summer)

### Third Year:

Nature, Architectural or Photo Elective  
Color Management for Photographers  
Imaging Workflows  
Digital Image Processing  
Technical Writing  
General Education and Open Electives  
Cooperative Education (Summer)

### Fourth Year:

High-Speed/Time-Lapse  
Introduction to Research  
Survey of Nonconventional Imaging  
General Education  
Open Electives  
Liberal Arts

- Curriculum is being modified as the Institute approaches Semesters in 2013.

## Employers of Imaging and Photographic Technology Co-op and Graduating Students:

Ball Aerospace and Technologies, Blackbird Technologies, Canfield Scientific, Canon, Defense Info Agency, Eastman Kodak Company, Edmund Optics, Estee Lauder, FBI, Foveon, Harley Davidson, Hewlett Packard, IBM, ITT, Indyne, Lockheed Martin, Los Alamos National Lab, Micron Technology, NASA, National Geospatial Agency, NAVAIR, Pantone, Synacor, UR Lab for Laser Energetics, US Forest Service, United Space Alliance, Xerox Corporation.

## Contact Us:

We appreciate your interest in hiring RIT co-op, graduating students or alumni. We will make every effort to make your recruiting endeavor a success. Call our office and ask to speak with Lisa Vasaturo, the program coordinator who works with the Imaging and Photographic Technology program. For your convenience, you can access information and services through our web site at <http://www.rit.edu/recruit>.

### Lisa M. Vasaturo; Program Coordinator

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