

Typical program outline for BS degree Imaging and Photographic Technology

Year 1	Course number	Credits
Photography I	2076-201, 2, 3	12
Materials & Processes of Photography	2076-211, 2, 3	9
System Design/Graphic Presentations	2076-401	3
College Algebra and Trig	1016-210	4
Data Analysis I *	1016-320	4
Calculus for Technologists *	1016-231	4
First Year Experience		2
Wellness		0
Liberal Arts (Core)		12
Year 2		
Photographic Sensitometry	2076-301	4
Technical Photographic Chemistry	2076-302	4
Photographic Optics	2076-303	4
Color Photo/Design	2076-311	4
Color Printing Theory	2076-312	4
Color Measurement	2076-313	4
College Physics		9
College Physics Lab		3
Liberal Arts (Core)		12
Cooperative Education (Summer)	2076-499	0
Year 3		
Digital Image processing	2076-491	4
Color Management for Photographers	2076-412	4
Imaging Workflows	2076-413	4
Nature Photography OR	2076-471	4
Architectural Photography	2067-478	4
OR another photo elective		
Technical Writing	0502-444	4
Open Elective		12
General Education Elective		12
Cooperative Education (Summer)	2076-499	
Year 4		
High-Speed/Time-Lapse	2076-511	3
Introduction to Research	2076-501	3
Survey of Nonconventional Imaging	2076-503	3
Open Elective		12
General Education Electives		22
Total Quarter Credit Hours		189 minimum

Note that there are 34 credit hours of General Education electives and 24 credit hours of Open electives. Most courses at RIT are 4 credit hours each. This means that in the 3rd and 4th years you have the opportunity to customize your degree with up to 14 4 credit

courses chosen according to the Institute guidelines on electives listed below.

Note about ELECTIVES

OPEN ELECTIVES can be courses from ANYWHERE in the Institute including home department or College.

GENERAL EDUCATION ELECTIVES can ONLY be ANY course from the College of Science or the College of Liberal Arts.

See Course Catalog for liberal arts requirements.

See Course Catalog for policy on physical education.

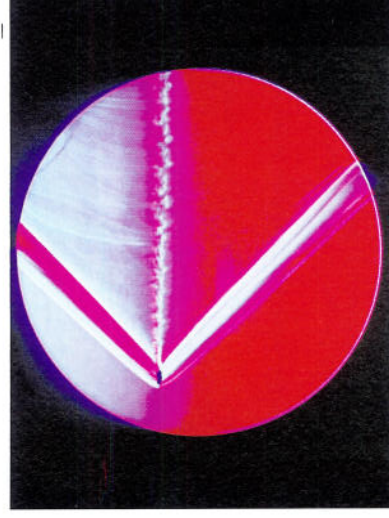
Students can substitute Engineering Calculus I and II for Calc. for Technologists I and Data Analysis if they meet prerequisites.

Students may substitute University Physics for College Physics, if they meet prerequisites. Consult advisor. Once a student completes College Physics they may not take and apply University Physics to their BS credit hour requirements.

Co-op experiences may be scheduled during the school year as well, but this may disrupt normal course schedule.



Students in the Photographic Optics course are aligning a collimator to determine the focal length of lenses.



.22 caliber bullet in supersonic flight in a schlieren system showing characteristic shock wave under such conditions.

Imaging and Photographic Technology



These are three graduates of the program who regularly work on the NASA "Weightless Wonder" or Vomit Comet, at Johnson Space Center, Houston, TX

**School of Photographic
Arts and Sciences**

Rochester Institute of Technology

phototech.rit.edu

Imaging and Photographic Technology

School of Photographic Arts and Sciences Rochester Institute of Technology



Credit: NASA - Imaging and Photographic Technology graduate working at NASA Glenn Research Center setting up a high speed flow visualization experiment.

Imaging and Photographic Technology is a unique major in photography. It blends a contemporary professional photography program with specialized education in technical, industrial and scientific imaging applications. It is an applications and technology oriented photography program that prepares students primarily for work in a technical, corporate, industrial, or scientific environment.

Graduates of this program are well-rounded individuals, with a background adaptable to a variety of photography and imaging related fields. The picture making aspects of the program include a comprehensive introduction to topics in commercial, professional and industrial photography including digital and large format photography. In addition, fundamental principles of tone reproduction, sensitometry, color reproduction, digital imaging and printing, multimedia and large format photography are also required.



The required technical courses include digital photography, monochrome and color tone reproduction, introduction to image processing, photographic optics, photographic chemistry, IDL programming, color theory, color measurement, imaging workflows, color management, high speed photography, intro to research and others. Also available within the departmental offerings are electives such as Holography, Scanning Electron Microscopy, Corporate and Special Interest Photography, Nature Photography, Photoinstrumentation Applications and Special Effects Photography.

Students in this program complement their technical skills with traditional coursework in mathematics, computing, science and liberal arts, including technical writing. Two cooperative employment work periods are also required.

During their last two years students may specialize in an individualized concentration track or any of a large number of Institute minors that could include optics, photographic instrumentation, graphic arts, color science, imaging chemistry, still photography, business, science and engineering and many others available from the College of Liberal Arts and the College of Science.

This solid base of skills allows graduates to obtain a variety of positions in the fields of applied photography and imaging, color science and management, professional photography, graphic arts and technical imaging, as well as scientific photography and digital resources and applications technology.

Cooperative Education Program

Students on coop or graduates can function at the initial technical level in a number of imaging related disciplines, or as photographic technologists or research associates in various industrial, scientific, or business enterprises. They also qualify as skilled studio or

laboratory assistants in industrial, commercial or governmental imaging enterprises. Imaging and Photographic Technology coops and graduates work in photographic and imaging related industries nationwide. They are employed by such corporations as Eastman Kodak, X-Rite, Adobe, Fuji, Hewlett Packard, Iris Graphics, Gretag-MacBeth, NASA-Johnson, Estee Lauder, Sandia, White Sands Missile Range, Popular Photography, Hallmark Cards, Harley Davidson, Calumet, Agfa, Konica, Fairchild, DuPont, IBM, General Electric, FBI, Naval Surface Weapons Center, Ifford, Durst, the Defense Intelligence Agency, NIMA, US Treasury, National Geographic and many other industrial, government and corporate organizations.

The multidisciplinary, yet customizable, nature of the program enables its graduates to find employment in diverse areas of the photographic and imaging industries. Typical job titles include: Photo Technologist, Applications Engineer, Digital Imaging Specialist, Multimedia Designer, Image Quality Engineer, Color Photographic Technician, Product Development Manager, Color Specialist, Quality Control Technologist, Imaging programmer, Technical Writer, Digital Pre-press Technologist, Color Scientist, High Speed Photographer, Photo Interpreter, Optical Engineer, etc.

For further information about the scope of the program, its students and faculty, the program outline and employment success of its graduates and many other aspects of this challenging but unique imaging program, please visit its website at:

<http://phototech.rit.edu>

Or send email to: Chairman, Imaging and Photographic Technology, School of Photographic Arts and Sciences at RIT at:

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Credit: by NASA Photographer Robert Markowitz, JPHT-92