

## MOTION PICTURE SCIENCE

<http://cias.rit.edu/film/bsDigitalCinema.php>

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### PROGRAM OVERVIEW FOR EMPLOYERS

The School of Film and Animation's Motion Picture Science program is one of the first of its kind in the nation, providing a science and engineering-based education in the fundamental imaging technologies used for the motion picture industry. By joining a core curriculum in practical film-making from the College of Imaging Arts and Sciences and image science from the College of Science, this program trains students in the art and science of feature film, television, and animation production. Topics include film and digital image capture, film scanning, digital image manipulation, color science, visual effects, and digital and traditional projection. Further, new facilities at RIT will provide students hands-on experience with the same equipment being used in major motion picture production today.

Utilizing research, critical thinking, creativity, and a range of problem solving principles, students are taught to address complex motion imaging workflow issues within the constraints of time, space, budget, and technology. Graduates of the BS program will enjoy varied career opportunities, from feature film and television post-production to imaging equipment design to essential motion imaging technology research and development. Within the motion picture industry, graduates of this program will command considerable attention thanks to training that places them at a substantial advantage versus more traditional engineering degree recipients.

By combining a fundamental and directed engineering curriculum with traditional film and animation fine arts courses, the Motion Picture Science program provides participating students a unique educational experience. At its core, the program draws on the strengths of RIT's image science heritage while concurrently providing a foundation in the art of film-making.

#### **Degree(s) Awarded**

Bachelor of Science

#### **Enrollment**

45 students currently enrolled

#### **Cooperative Education Component/Internship**

Students have the option of participating in a co-operative education/internship program as a part of their degree and are strongly encouraged to do so.

#### **Equipment & Facilities**

In 2007-2008, Motion Picture Science students along with the BFA students in SoFA moved into a new \$4million facility in the basement of the Gannett building. The new space provides state-of-the art equipment and theaters for the production, post-production, and exhibition of student projects. The facility will further serve as home to expected equipment acquisitions in motion picture film scanning and color grading equipment consistent with that found at top post-production houses around the world.

# Motion Picture Science

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## Course Sequence BS degree

### Fundamentals

Calculus I-III  
Physics I-III

### Imaging Science

Computer Programming for Imaging  
Linear Math for Imaging  
Vision & Psychophysics  
Digital Image Processing I&II  
Color Science  
Radiometry  
Geometric Optics

### School of Film and Animation

Film Language  
Production I&II  
Production Processes  
Post-Production Processes  
Introduction to Animation  
Introduction to 3D Computer Animation  
Sound Recording

### Core Courses

Film/Video Materials & Technology  
Image Capture & Production Technologies  
Special Effects & Digital Post-Production  
Film Projection & Digital Cinema

### Employers who have offered Internships for Motion Picture Science Students:

Abel Cine Tech, CNBC, Mohegan Sun Video Dept., Technicolor

### Employers of Motion Picture Science Graduating Students:

Academy of Motion Picture Arts & Sciences, Alma DDB, Deluxe Laboratories, Katabatic Media, Sony Digital Cinematography

### 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 Motion Picture Science 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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