

# SAFETY TECHNOLOGY

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## PROGRAM OVERVIEW FOR EMPLOYERS

The Safety Technology program builds on a foundation of science and math with specialized courses in occupational health and safety, fire protection, mechanical guarding, construction safety, incident investigation, ergonomics and more. The curriculum emphasizes creative problem solving through challenging application-based courses, and provides the skill and opportunity to solve industry problems. All students completing the BS degree program in Safety Technology will be eligible to take the associate safety professional examination upon graduation.

### Degree(s) Awarded

Bachelor of Science Degree (5 year)

### Enrollment

Approximately 30 students enrolled.

### Cooperative Education Component

Students are required to complete a minimum of four quarters of co-op. Students are available for 3-month and 6-month assignments.

### Salary Information (Avg/Range)

Co-op:	\$13.91	\$12.50 - \$16.38
BS:	\$42,500	\$36,000 - \$49,000

### Equipment & Facilities

State-of-the-art equipment in laboratories for industrial hygiene monitoring, materials hazardous response, and construction safety.

Use of PCs and technical software, where applicable.

### Accreditation

The Safety Technology program has been designed to meet the accreditation requirements for the Related Accreditation Commission of ABET, Inc.

### Student Skills & Capabilities

- Problem Solving
- Interpersonal Communication
- OSHA 40-hour Certification in Hazardous Waste Operations
- OSHA 10-hour Construction Safety
- Incident Management
- Industrial Compliance Management

### Certification

The hallmark of professional capability in the field of safety is the certified safety professional (CSP) designation. In order to sit for the two exams leading to the CSP, an individual must have academic preparation in addition to work experience in the safety field. All students completing the BS degree program in safety technology will be eligible to take the associate safety professional examination upon graduation. Eligibility for the CSP examination occurs once the graduate has acquired enough appropriate work experience (usually three additional years for students who have completed a full year of appropriate co-op assignments). RIT has structured the safety technology program to be at the leading edge of this field, providing students with high-quality academic preparation and relevant work experience.

# Safety Technology

## Course Sequence BS degree

### First and Second Years:

Environmental Management Seminar  
Chemistry Principles I, Lab  
College Algebra and Trigonometry  
College Physics I, Lab  
Principles of Environmental Management  
Human Biology II, Lab  
Introduction to Organic Chemistry, Lab  
Data Analysis I  
Applied Mechanics  
Physics II, Lab  
Calculus for Technology  
Problem Solving and Communications with Computers  
Cooperative Education Preparation

### Third through Fifth Years:

Occupational Health & Lab  
Manufacturing Process  
Fire Protection  
Instructional Design Principles  
Elements of Building Construction  
Basic Electrical Principles  
Occupational Safety  
Project Management  
Construction Safety & Lab  
Mechanical & Electrical Controls & Standards  
Occupational Health II  
Radiation Health Safety  
Ergonomics  
System Safety/Incident Investigation  
Safety & Health Program Management  
Professional Electives – Emergency Management;  
Environmental Management  
Liberal Arts  
Senior Project Planning/Project  
Manmade Hazards  
Effective Technical Communications  
Product Stewardship  
Industrial Wastewater Management  
Ethics  
Air Emissions Management  
Solid and Hazardous Waste Management  
Environmental Health and Safety Management  
System Design  
Integrating Environmental Health and Safety  
into Business Management  
Graduate Project/Thesis Planning  
Organizational Behavior and Leadership  
Environmental Health and Safety Accounting and Finance  
Environmental Health and Safety Internal Auditing

### Employers of Safety Technology Co-op and Graduating Students:

Eastman Kodak, Corning, Xerox, Rochester Gas & Electric, Florida Department of Labor, Energy East, Pratt & Whitney, Liberty Mutual, Bausch & Lomb, Duke Energy

### Functions:

Safety Engineers, Safety & Health Coordinators, Corporate Safety Representative, Environmental, Health & Safety Manager

### 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 Lynne Perry, the program coordinator who works with the Safety Technology program. For your convenience, you can access information and services through our web site at <http://www.rit.edu/recruit>.

### Lynne Perry, Program Coordinator

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