

System Safety Courseware

Report compiled for use by members of the System Safety Society. The System Safety Society does not guarantee currency of listing information or endorse any of the courses contained herein.

Sponsor Name: **Embry-Riddle Aeronautical University**

URL: <http://www.erau.edu/>

Street Address 1: 600 S. Clyde Morris Boulevard

Street address 2:

City: Daytona Beach State_Providence: Florida

Zip Code: 32114-3900

Country: USA

Telephone (general): (800) 522-6787

Sponsor Notes: Aviation Safety Certificates
BS in Safety Science
Masters in Safety Science

Safety Degrees

Remote campus options, numerous campus's

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Sponsor Name: **University of Washington, College of Engineering**

URL: <http://www.engr.washington.edu/epp/ssra/>

Street Address 1: Engineering Professional Programs

Street address 2: 10303 Meridian Ave N, Suite 301

City: Seattle

State_Providence: Washington

Zip Code: 989133

Country: USA

Telephone (general): (866) 791-1275

Safety Degrees

Sponsor Notes:

Title: **Software System Safety Engineering**

Length: 5 days

Text:

Distance learning:

Mobile Classroom

College Credits: 3.2

CSP CEUs: 0

Prerequisites:

Notes:

Title: **Safety Management**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits:

CSP CEUs:

Prerequisites:

Notes:

Title: **System Safety and Reliability Analysis**

Length: 1 Week

Text:

Distance learning:

Mobile Classroom

College Credits:

CSP CEUs:

Prerequisites:

Notes:

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Sponsor Name: **University of York**

URL: <http://www.cs.york.ac.uk/MSc/SCSE>

Street Address 1: Heslington

Street address 2:

City: York

State_Providence:

Zip Code: Y010 5DD

Country: United Kingdom

Telephone (general): 01904-430000

Safety Degrees

Sponsor Notes: Department of Computer Science
Modular MSc - Diploma - Certificate - Short Courses

Sponsor Name: **American Society of Safety Engineers (ASSE)**

URL: <http://www.ASSE.org>

Street Address 1: 1800 E Oakton St

Street address 2:

City: Des Plaines

State_Providence: Illinois

Zip Code: 60018

Country: USA

Telephone (general): 847-699-2929

Safety Degrees

Sponsor Notes: Numerous workshop, certificate preparation and short courses

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Sponsor Name: **University of Wisconsin**

URL: <http://www.uww.edu/index4.html>

Street Address 1: 800 West Main Street

Street address 2:

City: Whitewater

State_Providence: Wisconsin

Zip Code: 53190-1790

Country: USA

Telephone (general): (262) 472-1234

Safety Degrees

Sponsor Notes: Safety Studies
(Master of Science)

The Master of Science (M.S.) Degree in Safety Studies is designed to develop an advanced-level understanding of general and specific issues relevant to occupational, institutional and/or traffic safety environments. Students develop skills in collecting, analyzing, and drawing conclusions from data, and preparing oral and written reports relevant to accident investigations, job safety, health analysis, workers' compensation analysis, fire protection investigation analysis, workplace ergonomics assessment and hazard investigation.

Title: **SFTYGEN 787 - System Safety Analysis**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 3

CSP CEUs: 0

Prerequisites: SFTYGEN-688 or consent of instructor

Notes: Introduction to the system technique as applied to the recognition of potential accident situations in occupational environments. Concentration will be on the qualitative aspects of safety, utilizing numerous examples and problems.

Title: **SFTYGEN-688 - Ergonomics**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 3

CSP CEUs: 0

Prerequisites: Consent of Instructor

Notes: This course is intended to provide the student with basic introductory information concerning human information processing capabilities and limitations. Ergonomic strategies for preventing manual material handling, repetitive motion injury and ergonomic design and evaluation of man-machine systems will be included in the course.

Title: **SFTYGEN-788 Advanced Human Factors Engineering**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites: MATH-441/641 (or equivalent statistics), SFTYGEN-488/688 and consent of instructor.

Notes: An in-depth analysis of the human system, and how that system interacts with various machine systems. Current research in the area of human factors will be emphasized, with practical applications for countermeasures being established.

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Sponsor Name: **University of Southern California**

URL: <http://www.usc.edu>

Street Address 1:

Street address 2:

City: Los Angeles

State_Providence: California

Zip Code: 90033

Country: USA

Telephone (general): (323) 442-2000

Safety Degrees

Sponsor Notes: http://www.usc.edu/dept/publications/cat95/ISSM/2a_Safety_and_Systems_Undergrad.htm
|
http://www.usc.edu/dept/publications/cat95/ISSM/3a_Safety_and_Systems_Graduate.html

Sponsor Name: **SPAN International Training**

URL: <http://www.spantraining.com>

Street Address 1: 4226 Greenbriar Drive

Street address 2:

City: Nixa

State_Providence: Missouri

Zip Code: 65714

Country: USA

Telephone (general): (888) 58906757

Safety Degrees

Sponsor Notes: Formerly known as Las Vegas Work Shops
Certification preparation training

Title: **CSP Prep**

Length: 3 days

Text: Self developed/maintained, 2 volume workbooks

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites:

Notes: Generally offered in conjunction with International System Safety Conference.

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Sponsor Name: **Society of Automotive Engineers**

URL: <http://www.sae.org/events/training/>

Street Address 1: 400 Commonwealth Drive

Street address 2:

City: Warrendale

State_Providence: Pennsylvania

Zip Code: 15096

Country: USA

Telephone (general): 877-606-7323

Safety Degrees

Sponsor Notes: General courseware offerings, internet, seminar and in-house formats
Headquarters Troy Michigan
Address above is for customer service.

Title: **Designing for Safety and Developing Accurate Safety Specifications Seminar #C0254**

Length: 2 - days

Text: Creativity: The Art of Doing Right Things Right

Distance learning:

Mobile Classroom

College Credits: 1.3

CSP CEUs: 0

Prerequisites:

Notes: visit <http://www.sae.org/contedu/credits> for information about what institutions accept credits

Sponsor Name: **Naval Postgraduate School**

URL: <http://www.nps.edu/>

Street Address 1: Public Affairs Office - Code 004

Street address 2: 1 University Circle

City: Monterey

State_Providence: California

Zip Code: 93943

Country: USA

Telephone (general): 831-656-2023

Safety Degrees

Sponsor Notes: Limited enrollment Participants must be sponsored by US DOD agency

Title: **Weapon Systems and Software Safety**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites:

Notes:

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Sponsor Name: **National Safety Council**

URL: <http://www.nsc.org/train/>

Street Address 1: 1121 Spring Lake Drive

Street address 2:

City: Itasca

State_Providence: Illinois

Zip Code: 60143

Country: USA

Telephone (general): (630) 285-1121

Sponsor Notes: Several seminars, primarily industrial/occupational safety oriented but many cross-over courses to system safety

Safety Degrees

Title: **Incident investigation**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites:

Notes:

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Sponsor Name: **Virginia Tech**

URL: <http://www.grads.vt.edu/gcat/gcdISE.html>

Street Address 1:

Street address 2:

City: Blackburg

State_Providence: Virginia

Zip Code: 24061

Country: USA

Telephone (general): 540-231-6000

Safety Degrees

Sponsor Notes: Distance learning available
<http://ise.vt.edu/> industrial & Systems Engineering Dept.
Graduate degree in Human Factors

Title: **5154: APPLIED HUMAN FACTORS ENGINEERING**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites:

Notes: An examination of present human engineering design criteria, principles, and practices to achieve mission success through integration of the human into system, subsystem, equipment, and facility design in order to achieve effectiveness, simplicity, efficiency, reliability and safety of system operation, training and maintenance. Not for credit for students pursuing the M.S. or Ph.D. in the Human Factors option. (3H,3C).

Title: **5605,5606: HUMAN FACTORS SYSTEM DESIGN**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites: Pre: 3614 for 5605; 3614, 5605 for 5606. Co: 5614. 5605: (3H,3C) 5606: (4H,4C).

Notes: Human factors input into operator-system design, development, testing, and evaluation. Emphasis on the systems approach to human-machine interfacing, with discussion and application of specific methodologies and analytical techniques. Display and control design and selection fundamentals with engineering modeling of manual control systems. In 5606, each student performs a design project relying on application of systems analysis and design techniques. Pre: 3614 for 5605; 3614, 5605 for 5606. Co: 5614. 5605: (3H,3C) 5606: (4H,4C).

Title: **5674: SYSTEM SAFETY ANALYSIS**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites: Pre: 4644, STAT 3604 or STAT 4705. (4H,4C).

Notes: The analytical techniques and documentation requirements to provide proper design of equipment and systems and to protect against products liability. Safety concepts, legal concepts, qualitative and quantitative hazard evaluation, hazard classification, system life cycle safety, statistical distributions, software safety analysis, inductive and deductive analysis, Mort, Fault Tree, hands-on projects emphasizing hazard identification and control. Pre: 4644, STAT 3604 or STAT 4705. (4H,4C).

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Title: **6474: RELIABILITY THEORY**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites: Pre: 5414, 5405, STAT 5004. (3H,3C).

Notes: An introductory graduate-level examination of mathematical models of failure processes and complex system reliability. Included are existing probability models of component and system failure processes, statistical and experimental methods for estimating failure behavior, and optimization models for supporting design, replacement, and maintenance decisions. Pre: 5414, 5405, STAT 5004. (3H,3C).

Title: **6604: HUMAN FACTORS IN VISUAL DISPLAY SYSTEMS**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites: Pre: 5604, 5605. (3H,3C).

Notes: Quantitative analysis of human visual system capabilities and limitations, and their relationship to the design of visual display components and systems. Emphasis is placed on the measurement and physics of light, visual science data, hardware design, and the use of linear systems theory in display design and evaluation. Pre: 5604, 5605. (3H,3C).

Title: **6624: ADVANCED TOPICS IN HUMAN FACTORS**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 0

Prerequisites: Pre: 5616. (3H,3C).

Notes: A research-oriented course reviewing the scientific literature in Human Factors Engineering of selected complex systems. Industrial, civil, transportation, military and computer-based systems will be considered. State-of-the-art topics will be examined to an extent not covered in other courses. May be repeated, with different content. Pre: 5616. (3H,3C).

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Sponsor Name: **Defense Acquisition University**

URL: http://clc.dau.mil/kc/no_login/portal.asp

Street Address 1:

Street address 2:

City:

State_Providence:

Zip Code:

Country: USA

Telephone (general): 866-568-6924

Safety Degrees

Sponsor Notes: The mission of the CLC is to provide a single portal for easy access to a multitude of continuous learning opportunities, performance support and information. This site is not intended to provide certification courses (please visit <http://www.dau.mil>, Enroll Here, for all certification courses).

Courses are online

Sponsor Name: **Goodwin College (Drexel University)**

URL: <http://www.drexel.edu/academics/goodwin/welcome/>

Street Address 1: One Drexel Plaza, 3001 Market St

Street address 2:

City: Philadelphia

State_Providence: Pennsylvania

Zip Code: 19104

Country: USA

Telephone (general): (215) 895-2159

Safety Degrees

Sponsor Notes: Did offer aviation safety 02-03, unable to locate in 04?

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Sponsor Name: **APT Research, Inc**

URL: <http://www.apr-research.com>

Street Address 1: 4950 Research Drive NW

Street address 2:

City: Huntsville

State_Providence: AL

Zip Code: 35805-5906

Country: USA

Telephone (general): 256.327.3397

Safety Degrees

Sponsor Notes:

Title: **Principles of System Safety Engineering**

Length: 4 days

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 2.4

Prerequisites:

Notes: The APT Safety Engineering and Analysis Center (SEAC) is conveniently located in Cummings' Research Park near Redstone Arsenal in Huntsville. See our website for detailed directions. www.apr-research.com

The Principles of System Safety Engineering course includes training modules for:

- Failure Modes and Effects Analysis
- Fault Tree Analysis
- Event Tree Analysis
- Reviewing SS Analyses
- Risk Acceptance
- Elements of a System Safety Program
- Concepts in Risk Management
- Initiating the System Safety Program
- Working with the Risk Assessment Matrix
- Preliminary Hazard Analysis

Title: **Engineering Advanced System Safety Engineering**

Length: 3 days

Text:

Distance learning:

Mobile Classroom

College Credits: 0

CSP CEUs: 2

Prerequisites:

Notes: The Advanced System Safety Engineering training course is designed for safety professionals wanting to advance their skill and knowledge in techniques supporting hazard discovery, assessment and control of risk, and the review of risk analyses performed by others. The course begins by reviewing the basic principles of the system safety discipline, and building on these principles, it explores in more depth the following subjects:

- Concepts in Risk Management
- Working with the Risk Assessment Matrix
- Fault Tree Analysis
- Reviewing System Safety Analyses
- Managing Risk Acceptance
- Sneak Circuit Analysis
- Making Component Failure Probability Estimates
- Cause-Consequence Analysis
- Risk Acceptance & Strategy Selection in Tech Activities
- Human Factors and Operator Errors

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Sponsor Name: **Illinois State University**

URL: <http://www.ilstu.edu/>

Street Address 1: Department of Health Sciences

Street address 2: Campus Box

City: Normal

State_Providence: Illinois

Zip Code: 61790

Country: USA

Telephone (general): (309) 438-2111

Safety Degrees

Sponsor Notes: Listed in BSCP
BS in Safety; Masters of Science in Environmental Health and Safety
For more information, please contact Angela Almeda <aaalmed@mail.ilstu.edu>.
HSC office phone: 309-438-8329
On-line courses available

Title:

Length:

Text:

Distance learning:

Mobile Classroom

College Credits:

CSP CEUs:

Prerequisites:

Notes:

Sponsor Name: **Indiana University of PA**

URL: <http://www.iup.edu/>

Street Address 1: 1011 South Drive

Street address 2:

City: Indiana

State_Providence: Pennsylvania

Zip Code: 15705

Country: USA

Telephone (general): (724) 357-2100

Safety Degrees

Sponsor Notes: Listed in BSCP
Degrees (BS & MS) in Safety Sciences
117 Johnson Hall, 1010 Oakland Avenue
Indiana, PA 15705 USA
Phone: 724-357-3018
Fax: 724-357-3992
Office Hours: 8:00-noon, 1:00-4:30
Monday through Friday EST/DST

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Sponsor Name: **Marshall University**

URL: <http://www.marshall.edu/>

Street Address 1: 112 Gullickson Hall

Street address 2: 18th St. and 3rd Ave

City: Huntington

State_Providence: West Virginia

Zip Code: 25755

Country: USA

Telephone (general): (304) 696-5453

Safety Degrees

Sponsor Notes:

Listed in BSCP
Alternate Campus: 325 Administration Bldg.
100 Angus E. Peyton Drive
South Charleston, WV 25303
Masters of Science in Safety
The graduate degree features concentrations in:
Ergonomics
Industrial Hygiene
Occupational Safety and Health
Mine Safety
Safety Management
Transportation Safety

Sponsor Name: **Millersville University of PA**

URL: <http://www.millersville.edu/>

Street Address 1: P.O. Box 1002

Street address 2:

City: Millersville

State_Providence: Pennsylvania

Zip Code: 17551-1002

Country: USA

Telephone (general): (717) 872-3318

Safety Degrees

Sponsor Notes:

Listed in BSCP
BS Occupational Safety & Environmental Health

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Sponsor Name: **Murray State University**

URL: <http://www.murraystate.edu/>

Street Address 1: 157 Industry & Technology Center

Street address 2:

City: Murray

State_Providence: Kentucky

Zip Code: 42071-3347

Country: USA

Telephone (general): (888) 886-5715

Safety Degrees

Sponsor Notes: Listed in BSCP
Masters of Science: Occupational Safety and Health

Sponsor Name: **West Virginia State University**

URL: <http://www.cemr.wvu.edu/>

Street Address 1:

Street address 2: P.O. Box

City: Morgantown

State_Providence: West Virginia

Zip Code: 0

Country: USA

Telephone (general): (304) 293-4832 Ext. 2237

Safety Degrees

Sponsor Notes: Listed in BSCP
Undergraduate in Industrial Engineering, MS in Safety Management

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Sponsor Name: **University of Maryland**

URL: <http://www.ENRE.umd.edu>

Street Address 1:

Street address 2:

City:

State_Providence:

Zip Code: 0

Country: USA

Telephone (general): () - Ext 0

Safety Degrees

Sponsor Notes: Safety courses by Reliability Engineering Department

Title: **ENRE 447/467 System Safety Engineering**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 3

CSP CEUs:

Prerequisites:

Notes: Instructor: Michael Allacco (202) 493-4589; Michael_Allocco@FAA.gov

Title: **ENRE 683 (648M) Software Safety**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 3

CSP CEUs:

Prerequisites:

Notes: Instructor: Dr. Carol Smidts

Title: **ENRE 670 Risk Assessments for Engineers**

Length:

Text:

Distance learning:

Mobile Classroom

College Credits: 3

CSP CEUs:

Prerequisites:

Notes: Instructor: Dr. Mohammad Modarres