

M.S. in Occupational Safety Management

The Master of Science in Occupational Safety Management (MSOSM) provides students the theoretical foundation, research and application skills required to effectively anticipate, recognize, evaluate, prevent and control workplace safety, health and environmental hazards, as well as manage comprehensive occupational safety and health programs. The Industrial Hygiene Track will help students identify workplace hazards and work proactively to prevent them. Students will learn how to recognize potential hazardous exposures and mitigate them to provide a safe and healthy workplace environment.

The students at our Daytona Beach Campus benefit from access to real-world aviation and safety operations, plus the added flexibility of completing some courses online.

The Management Track is made up of courses encompassing safety-related topics, research, and statistics.

The courses provide graduate students with the necessary knowledge, skills, and abilities to succeed as a safety and health manager and professional.

The Industrial Hygiene Track consists of courses encompassing industrial hygiene-related topics, research, and statistics.

Students can round out their program by choosing to do a thesis, a graduate capstone or participating in an internship. 36 credits are required for students completing a thesis, and 33 credits are required for those completing the capstone.

Each track of the Master of Science in Occupational Safety Management is designated as a BCSP Qualified Academic Program, and graduates are eligible to apply for the BCSP Graduate Safety Practitioner® (GSP) designation. The GSP designation is an alternate path to the Certified Safety Professional® (CSP), waiving the requirement to sit for the ASP exam. For information on the GSP go to <https://www.bcsp.org/GSP>.

Admissions Criteria

Students will:

- Demonstrate how to anticipate, recognize, evaluate, prevent and control strategies for hazardous conditions and work practices.
- Apply sampling, measurement methods, and control technologies to physical, chemical, and biological contaminant exposure risks.
- Demonstrate the fundamental aspects of safety, industrial hygiene, environmental science, fire science, hazardous materials, emergency management, ergonomics and/or human factors.
- Evaluate safety, health, and/or environmental programs of their design.
- Apply adult learning theory to safety training methodology.
- Apply relevant standards, regulations, and codes.
- Conduct accident investigations and analyses.
- Apply principles of safety and health in a non-academic setting through an intern, cooperative, or supervised experience.
- Demonstrate both mastery of the subject matter and a high level of oral and written communication skills.

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potential hazardous exposures and mitigate them to provide a safe and healthy workplace environment.

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The Management Track is made up of courses encompassing safety-related topics, research and statistics. They address:

- occupational safety and health management
- hazard controls
- environmental protection
- industrial hygiene and toxicology
- human factors and ergonomics
- fire safety management
- disaster preparedness and emergency response
- systems safety and legislation
- litigation and compliance operations

These courses provide our graduate students with the necessary knowledge, skills and abilities to succeed as a safety and health manager and professional.

The Industrial Hygiene Track consists of courses encompassing industrial hygiene-related topics, research and statistics.

- Health and Safety Foundations
- Litigation & Compliance
- Physical Hazards
- Hazard Control Methods
- Industrial Hygiene and Toxicology
- Human Factors and Ergonomics
- Chemical Hazards and Analytical Methods
- Sampling and Analysis

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Degree Requirements

SF 520	Occupational Health and Safety Foundations	3
SF 530	Safety, Health and Environmental Legislation, Litigation & Compliance	3
SF 550	Fire Safety Management and Disaster Response	3
SF 580	Environmental Protection for the Safety, Health and Environmental Manager	3
SF 590	Hazard Control Methods in Occupational Safety and Health	3
SF 600	Occupational Safety and Health Management	3
SF 611	Industrial Hygiene and Toxicology	3
SF 619	Human Factors and Ergonomics	3
Total Credits		24

Research Core

MSA 662	Statistical Analysis for Aviation/Aerospace	3
MSA 670	Research Methods in Aviation/Aerospace	3

Select one of the following Options

Option 1: Capstone

SF 691 Graduate Capstone 3

Total Credits with Capstone Option 33

OR Option II: Thesis

SF 700A MSOSM Thesis I 3

SF 700B MSOSM Thesis II 3

Total Credits with Thesis Option 36

Industrial Hygiene Track Requirements

SF 520 Occupational Health and Safety Foundations 3

SF 530 Safety, Health and Environmental Legislation, Litigation & Compliance 3

SF 560 Industrial Hygiene and Physical Hazards 3

SF 590 Hazard Control Methods in Occupational Safety and Health 3

SF 611 Industrial Hygiene and Toxicology 3

SF 619 Human Factors and Ergonomics 3

SF 620 Evaluation of Chemical Hazards and Analytical Methods in Industrial Hygiene 3

SF 640 Industrial Hygiene Sampling and Analysis 3

Total Credits 24

Research Core

MSA 662 Statistical Analysis for Aviation/Aerospace 3

MSA 670 Research Methods in Aviation/Aerospace 3

Select one of the following Options

Option I: Capstone

SF 691 Graduate Capstone 3

Total Credits with Capstone Option 33

OR Option II: Thesis

SF 700A MSOSM Thesis I 3

SF 700B MSOSM Thesis II 3

Total Credits with Thesis Option 36