

INDUSTRIAL TECHNOLOGY (B.S.) EMERGENCY MANAGEMENT TECHNOLOGY CONCENTRATION

The emergency management technology option focuses on disaster prevention, planning, preparedness, response, mitigation, and recovery. The curriculum covers needs and issues, operations management, planning and response, and terrorism and is designed to provide students with a global outlook, interpersonal skills, and emergency management knowledge and skills. Emergency management is the discipline of dealing with and avoiding risks. It is a discipline that involves preparing for disaster before it occurs. This undergraduate specialization provides an overview of public safety research, theory, and principles within an emergency management framework. The curriculum focuses on such topics as emergency planning and decision-making, homeland security, disaster response and recovery, and hazard identification and mitigation.

Introduction/Mission

The mission of the Industrial Systems and Technology program is to provide a nationally accredited program, which serves the technical, managerial, and communication needs of persons desiring to enter or advance professionally in an industrial technology-related career.

The JSU Industrial Technology Programs will:

1. Prepare our graduates to meet employer expectations for competent professional, and ethical practice.
2. Prepare our graduates to pursue advanced studies in the areas of technology or other fields.
3. Prepare our graduates to adapt and continuously practice life-long learning and continuing education.

Objectives

The objectives of the Industrial Systems and Technology program are as follows:

- To produce competent technologists with specialized educational experiences that will enable them to become capable of ascertaining managerial, supervisory and production positions in areas such as business, industry, and government.
- To produce students with the capability to perform quality research in technology.
- To produce students with the ability to perform and take leadership roles in local, state, and national arenas.

Accreditation

The Industrial Systems and Technology program at Jackson State University is accredited by the Association of Technology, Management, and Applied Engineering (ATMAE).

Major Requirements

Emergency Management Technology Concentration

Code	Title	Hours
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
ITD 114	COMPUTER-AIDED DRAFTING	3
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
ITEM 302	INTRO TO INCIDENT COMMAND SYS	3
ITEM 303	COMMUNITY EMERGENCY RESPN TEAM	3
ITEM 304	INTERNSHIPS	3
ITEM 402	BASIC GEOG INFO SYS REMOTE SEN	3
ITEM 403	DISASTER MANAGEMENT	3
ITEM 404	SPECIAL PROJECT	3
ITEM 407	TECHNOLOGY IN EMERGENCY RESPONSE AND MANAGEMENT	3
ITHM 300	PRIN OF HAZARDOUS MATERLS MNGT	3
ITHM 301	REGULATORY FRAMEWORK	3
ITHM 302	TECH FOR STR TREATMENT DIP HM	3
ITHM 402	INDUSTRIAL HYGIENE	3
ITHM 405	RISK ASSESSMENT	3
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3
ITMA 325	INDUSTRIAL PSYCHOLOGY	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS	3
Total Hours		52

Curriculum Map

Course	Title	Hours
Freshman		
Fall		
UNIV 100	UNIVERSITY SUCCESS	2
ENG 104 or ENG 103 or ENG 111	COMPOSITION I or English Composition I with Co-requisite Support or COMPOSITION & LITERATURE FOR L	3
MATH 111	COLLEGE ALGEBRA	3
BIO 101 & BIOL 101	INTRO TO BIOLOGICAL SCIENCE and INTRO TO BIO SCI LAB	3
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Hours		17
Spring		
ENG 105 or ENG 112	COMPOSITION II or COMPOSITION	3
MATH 112	PLANE TRIGONOMETRY	3
CSC 115	DIGITAL COMPUTER PRINCIPLES	3
Humanities & Fine Arts Option		3
Pathway Option		3
Hours		15
Sophomore		
Fall		
IT 100	INTRO TO INDUSTRIAL TECHNOLOGY	1
ITMA 105	INDUSTRIAL SAFETY & MANAGEMENT	3
ITD 114	COMPUTER-AIDED DRAFTING	3
CHEM 141 & CHML 141	GENERAL CHEMISTRY I and GENERAL CHEMISTRY LAB	4
SPCH 201	SPEECH ARTS	3
Pathway Option		3
Hours		17

Spring		
ENG 213	PROFESSIONAL WRITING	3
MATH 221	CALCULUS I INDUST OR BUS	3
UNIV 200	CIVIC ENGAGEMENT	1
Humanities & Fine Arts Option		3
Social & Behavioral Science Option		3
Pathway Option		3
Hours		16
Junior		
Fall		
ITEM 301	PRINCIPLES OF EMERGENCY MNGT	3
ITEM 302	INTRO TO INCIDENT COMMAND SYS	3
ITHM 300	PRIN OF HAZARDOUS MATERLS MNGT	3
ITEM 407	TECHNOLOGY IN EMERGENCY RESPONSE AND MANAGEMENT	3
PHY 201 & PHYL 201	BASIC PHYSICS I and BASIC PHYSICS LAB I	4
Hours		16
Spring		
ECO 211	PRINCIPLES OF MACROECONOMICS	3
ITHM 301	REGULATORY FRAMEWORK	3
ITEM 303	COMMUNITY EMERGENCY RESPN TEAM	3
ITEM 304	INTERNSHIPS	3
ITMA 325	INDUSTRIAL PSYCHOLOGY	3
Hours		15
Senior		
Fall		
ITEM 402	BASIC GEOG INFO SYS REMOTE SEN	3
ITEM 403	DISASTER MANAGEMENT	3
ITEM 404	SPECIAL PROJECT	3
ITMA 420	LABOR & INDUSTRIAL RELATIONS	3
MET 200	INTRO TO METEOROLOGY	3
Hours		15
Spring		
ITHM 302	TECH FOR STR TREATMENT DIP HM	3
ITHM 402	INDUSTRIAL HYGIENE	3
ITHM 405	RISK ASSESSMENT	3
General Elective		3
Hours		12
Total Hours		123

Notes:

- Candidates that transfer 12 or more hours of college credit are exempt from UNIV 100 UNIVERSITY SUCCESS; however, the student must take 2 hours of general electives to replace the UNIV course.
- Online Graduation Clearance (**to be completed during the graduating semester only**).

Student Learning Outcomes

1. Demonstrate an understanding of the basic concepts of DC, AC, and analog circuits as well as an understanding of and use specialized instruments in a laboratory or workbench environment.
2. Understand the structure of a computing system, the design of its basic components and the interactions of hardware and software components
3. Demonstrate a basic knowledge of using, setting up, and maintaining personal computers and computer network systems
4. Demonstrate the skills needed to effectively manage a disaster scene.