

# COMPUTER INFO TECH (ITAI)

## **ITAI 1370 Foundations of Artificial Intelligence 3 Credits (2 Lec, 3 Lab)**

This course provides a comprehensive introduction to the core principles, techniques, and tools of artificial intelligence (AI). Through lectures, discussions, and hands-on exercises, students will gain a practical understanding of AI's potential and its impact across various industries and sectors.

Course Type: Technical

## **ITAI 1371 Data Governance for Artificial Intelligence 3 Credits (2 Lec, 2 Lab)**

This course introduces the principles and practices of data governance with a focus on artificial intelligence (AI) applications. Students will explore how organizations establish policies, standards, and frameworks to ensure the quality, integrity, security, and ethical use of data for AI systems. Students will also learn how to manage data lifecycles, apply regulatory compliance requirements, uphold accountability, and align data governance strategies with organizational objectives. Through case studies and applied exercises, students will gain practical skills in establishing governance practices that support trustworthy and effective AI initiatives.

Course Type: Technical

## **ITAI 1372 Artificial Intelligence in Cybersecurity 3 Credits (2 Lec, 2 Lab)**

This course explores how artificial intelligence (AI) can enhance and modernize cybersecurity strategies. Students will examine AI's role in threat detection, incident response, and vulnerability assessment, gaining insights into how machine learning and other AI techniques are used to protect systems, networks, and data against evolving cyber threats.

Course Type: Technical

## **ITAI 1373 Artificial Intelligence Policy, Governance, and Compliance 3 Credits (2 Lec, 2 Lab)**

This course focuses on the regulatory policies, governance structures, and compliance frameworks essential for managing and overseeing artificial intelligence (AI) technologies. Students will explore real-world case studies and examples to understand how organizations implement AI governance, maintain compliance with relevant regulations, and navigate complex policy environments.

Prerequisite(s): ITAI 1370

Course Type: Technical

## **ITAI 2370 Operationalizing Artificial Intelligence 3 Credits (2 Lec, 3 Lab)**

This course introduces students to the latest methods, tools, and practices for operationalizing artificial intelligence (AI) in organizational settings. Emphasis is placed on preparing AI systems for real-world use by focusing on deployment, integration, scalability, and continuous improvement. Students will explore current and emerging approaches for interacting with, managing, and optimizing AI systems to ensure reliable, ethical, and impactful outcomes. The course adapts to evolving technologies and industry practices, ensuring students gain skills that remain relevant as AI capabilities advance.

Prerequisite(s): ITAI 1370

Course Type: Technical

## **ITAI 2371 Artificial Intelligence in Business and Strategy 3 Credits (2 Lec, 2 Lab)**

This course examines the role of artificial intelligence (AI) in shaping strategic and operational decisions across various business domains. Students will explore how AI-driven insights can optimize processes, improve forecasting, and facilitate data-informed strategies. Through case studies, hands-on exercises, and collaborative projects, students will learn to apply AI tools and techniques to real-world business challenges and effectively communicate findings to stakeholders.

Prerequisite(s): ITAI 1370 Foundations of Artificial Intelligence

Course Type: Technical

## **ITAI 2372 Artificial Intelligence Applications 3 Credits (2 Lec, 4 Lab)**

In this capstone course, students will design and execute a comprehensive artificial intelligence (AI) project aimed at addressing a specific workplace or industry-based challenge. Students will create detailed project plans, implement practical AI-driven solutions, and evaluate their performance using defined metrics and ethical and regulatory considerations.

Prerequisite with concurrency: ITAI 2370 or Department Chair approval

Course Type: Technical

## **ITAI 2374 Practicum - Artificial Intelligence 3 Credits (0 Lec, 21 Lab)**

This work-based learning experience allows students to apply the Artificial Intelligence (AI) principles and skills gained throughout the program in a real-world setting. Through project planning, execution, and evaluation, students will demonstrate their ability to implement AI strategies responsibly and effectively. Students will complete a workplace-based project, integrating AI solutions into their current organization. Department Chair approval is required at least 60 days prior to enrollment.

Prerequisite(s): ITAI 2370

Course Type: Technical