HFT 4442/HMG 6440

Artificial Intelligence Revolutions and Applications in Tourism, Hospitality and Events (Fall 2025)

COURSE INFORMATION

Credits:

Meeting location: Fully Online

Office hours: 7:30am-9am, Wednesday or by request/appointment

COURSE INSTRUCTOR

Nico Rose

Assistant Provost & Instructor
Office of Teaching and Technology

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Department Chair Rachel Fu, Ph.D., CHE Room FLG 240D

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COURSE DESCRIPTION:

A foundational examination of the implications of the artificial intelligence revolution (AI) in the tourism, hospitality, and event industry. Content includes analyses of AI applications in booking, transportation, theme parks, destination and attraction marketing, economic, social, cultural, and environmental impacts, as well as motivators to travel.

COURSE DESCRIPTION:

The goal of this course is to provide a foundation for understanding the emergent perspectives on the linkages between technology, marketing, analytics, and the design of tourism places associated with Artificial Intelligence (AI) and Big Data revolutions. The course presents key components of the transformational changes in relationships among the new technology, traveler behavior, and the travel industry. The critical analysis of tourism systems is particularly focused on creating sustainable, safe, and healthy environments using the latest developments in AI and Data Science. The course encourages students to consider the future of tourism and how the new smart technologies are reshaping it.

PREREQUISITES:

Junior or senior standing (or approval)

READING MATERIALS:

This class will use both assigned textbooks and peer-reviewed articles posted on Canvas. Please consult the course calendar for weekly reading topics.

Required Textbook:

✓ Artificial Intelligence, Machine Learning, and Robot Applications in Hospitality Businesses. Author: Dr. Rachel Fu (ISBN: 979-8-7657-8381-8) First/Second Edition

COURSE FORMAT:

Fully-Online via Canvas

COURSE LEARNING OBJECTIVES:

Upon completion of this course students will be able to:

- Define artificial intelligence and describe how its applications are used in travel, tourism, hospitality, and event industries, including booking, transportation, destinations, attractions, theme parks, lodging, resorts, restaurant, and many other components.
- Describe the history and development of the revolutions in Al.
- Describe how AI helps tourists prior to and during their travel.
- Evaluate the contributions of AI adoptions in international tourism.
- Apply learned literature, methods, and skills in research contexts.
- Identify major AI forces that are shaping the future of the tourism, hospitality, and event industries.

COURSE AND UNIVERSITY POLICIES:

PERSONAL CONDUCT POLICY: Students are expected to exhibit behaviors that reflect highly upon themselves and our University. UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies behaviors that are in violation of this code and the possible sanctions.

Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult the instructor or teaching Assistant in this class.

MAKE-UP POLICIES FOR MISSED ASSIGNMENTS: A student experiencing an illness should visit the UF Student Health Care Center or their preferred healthcare provider to seek medical advice and obtain documentation. If you have an illness, family emergency or death, please contact the Dean of Students Office (www.dso.ufl.edu) and follow the DSO Care Team procedures for documentation and submission of a request for make-up assignment (https://care.dso.ufl.edu/instructor-notifications/). The DSO will contact the instructor. Do not provide any documentation to the instructor regarding illness or family emergency. This is your personal and protected information. The DSO is qualified to receive and verify the documents you provide. The instructor will follow the recommendations from the DSO. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at: https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

ACCOMMODATING STUDENTS WITH DISABILITIES: Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center by visiting their Get Started page at https://disability.ufl.edu/students/get-started/. It is

important for students to share their accommodation letter with their instructor and discuss their access needs as early as possible in the semester.

COURSE EVALUATIONS: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at https://gatorevals.aa.ufl.edu/students/. Students will be notified when the evaluation period opens and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via https://ufl.bluera.com/ufl/. Summaries of course evaluation results are available to students at https://gatorevals.aa.ufl.edu/public-results/.

GETTING HELP:

Health and Wellness

- U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575
- Counseling and Wellness Center: https://counseling.ufl.edu/, 352-392-1575
- Sexual Assault Recovery Services (SARS) Student Health Care Center, 392-1161
- University Police Department, 392-1111 (or 9-1-1 for emergencies) http://www.police.ufl.edu/

Academic Resources

- E-learning technical support, 352-392-4357 (select opti on 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml
- Career Connections Center, Reitz Union, 392-1601. Career assistance and counseling. https://career.ufl.edu/
- Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. http://teachingcenter.ufl.edu/
- Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. http://writing.ufl.edu/writing-studio/
- Student Complaints On-Campus: https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/ On-Line Students Complaints: http://distance.ufl.edu/student-complaint-process/

GRADING:

Make-up assignments will be considered at the instructor's discretion and only when arrangements have been made prior to the scheduled event. For emergencies, health-related issues, or religious observances, the instructor follows the UF policies specified here:

https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx.

Student can earn 100 points (100%) in this class:

Perusall/Readings:

Assigned readings from the textbook and supplemental articles will help you build a solid foundation in AI concepts, industry applications, and current trends. These materials give you the background you'll need to engage in class discussions, complete activities, and connect theory to real-world examples.

PlayPosit Lecture Videos:

Interactive lecture videos bring the content to life with visuals, examples, and embedded questions to keep you engaged. These videos are designed to help you check your understanding as you go and apply what you've learned before moving on.

Learning Activities:

Hands-on activities give you the chance to put concepts into practice. You'll work through real-world scenarios, analyze case studies, and explore AI tools used in tourism, hospitality, and events—building skills you can take straight into your career.

Quizzes:

Short quizzes will help you check your understanding of key concepts from readings, videos, and activities. They're designed as learning tools, giving you timely feedback so you can strengthen your knowledge before moving forward.

Final Project:

Your final project is your chance to bring it all together. You'll apply what you've learned to design a forward-thinking AI solution, strategy, or analysis for a tourism, hospitality, or event context. This capstone assignment challenges you to combine research, creativity, and industry insight—showcasing your ability to think critically and lead in an AI-driven future.

GRADES

Assignment Category	Point Value	Percentage of Grade
Learning Activities	35	35%
Perusall Readings & PlayPosit	25	25%
Quiz	20	20%
Final Project	20	20%

NOTE: If you are a graduate student perusing a thesis track, please reach out to me during the first week of the semester to discuss course grading.

It will take one week to 10 days to get grades posted for each assignment. Please contact your instructor in one week after your grade is posted when you feel there is an error in grading. **Your grade will not be rounded.** More detailed information regarding current UF grading policies can be found here: https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/.

GRADING SCALE AND GPA POINTS:

A- = 90.00-92.99% (3.67)	A = 93.00-100% (4.0)		
B- = 80.00-82.99% (2.67)	B = 83.00-86.99% (3.0)	B+ = 87.00-89.99% (3.33)	
C- = 70.00-72.99% (1.67)	C = 73.00-76.99% (2.0)	C+ = 77.00-79.99% (2.33)	
D- = 60.00-62.99% (0.67)	D = 63.00-66.99% (1.0)	D+ = 67.00-69.99% (1.33)	E = 59.99% or lower (0.0).
			This is a failing grade.

COURSE SCHEDULE:

Module	Learning Objectives	Graded Activities	
1	At the end of this module, you will be able to	Al in Hospitality Infographic	
	Define artificial intelligence and associated key terminology (Remembering)	Reflection: Al for Oceans Exploration	
	Summarize major milestones and historical	Tremeduality with descarie Exploration	
	developments in AI (Understanding)	Module 1 Quiz	
	3. Discuss the transformative role of Al within		
	tourism, hospitality, and events (Understanding)		
2	At the end of this module, you will be able to	PlayPosit	
	1. Explain fundamental Al concepts including		
	machine learning, deep learning, and NLP (Understanding)	Module 2 Quiz	
	Illustrate the process of training and		
	implementing a basic Al model (Applying)	Creating an Image Recognition Model	
	3. Evaluate ethical considerations related to data collection and Al algorithms (Evaluating)		
3	At the end of this module, you will be able to	PlayPosit	
	Identify AI technologies used in market	,	
	segmentation and customer analytics	Perusall Reading	
	(Remembering) 2. Develop strategies for personalized, Al-driven		
	marketing campaigns (Creating)	Digital Marketing Strategy Assignment	
	3. Analyze the effectiveness of Al-driven marketing		
	tactics through case studies (Analyzing)		
4	At the end of this module, you will be able to	PlayPosit	
	Describe how AI supports Mobility as a Service (MaaS) platforms (Understanding)		
	2. Analyze case studies demonstrating Al's role in	Module 4 Quiz	
	transportation optimization and integration	Addition Association Association	
	(Analyzing)	Mobile App Ideation Assignment	

	3. Propose Al-based solutions to enhance travel	
	booking and customer experiences (Creating)	
5	At the end of this module, you will be able to	PlayPosit
	Identify key Al innovations currently utilized in	
	hotel and resort operations (Remembering)	Creating a ChatBot Assignment
	2. Assess Al's impact on operational efficiency and	
	guest satisfaction in lodging contexts (Evaluating)	Module 5 Quiz
	3. Design an Al-driven operational improvement	Wiodule 5 Quiz
	plan for a hospitality enterprise (Creating)	
-	At the end of this module, you will be able to	Pla Parti
6	List major Al and robotic applications commonly	PlayPosit
	used in hospitality management (Remembering)	
	Explain how robotics enhance operational	Robot Prototype Assignment
	efficiency and guest interactions (Understanding)	
	3. Develop a proposal for incorporating robotic	Module 6 Quiz
	solutions into a specific hospitality scenario	
	(Creating)	
7	At the end of this module, you will be able to	Feedback Scraping Assignment
	Describe Al applications utilized in restaurant	
	operations, such as inventory management and	PlayPosit
	menu optimization (Understanding)	1.047.00.0
	2. Evaluate the effectiveness of robotics and Al-	Perusall Reading
	driven automation in foodservice contexts	Ferusali Reduling
	(Evaluating)	
	3. Create an innovative Al-based proposal aimed at improving operational performance or guest	
	experiences in F&B operations (Creating)	
8	At the end of this module, you will be able to	Final Project
	1. Analyze global case studies of Al integration	- Thiai Troject
	within tourism and hospitality industries (Analyzing)	Course Reflection
	2. Critique ethical, legal, and societal challenges	Course Reflection
	associated with widespread AI implementation	
	(Evaluating)	
	Forecast future trends and propose strategic	
	approaches for AI adoption within tourism,	
	hospitality, and events (Creating)	