

Cover Sheet: Request 14815

EGN 3XXX Artificial Intelligence Fundamentals

Info

Process	Course New Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Johannes Van Oostrom oostrom@ufl.edu
Created	3/18/2020 11:17:39 AM
Updated	9/17/2020 7:49:16 AM
Description of request	Course proposal for a course to be part of an AI Literacy undergraduate certificate

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	ENG - Engineering - General 011940001	Johannes Van Oostrom	Approved by EED curriculum committee	4/27/2020
No document changes					
College	Conditionally Approved	ENG - College of Engineering	Heidi Dublin	Conditionally Approved by HWCOE Curriculum Committee—Under grading it says “Not all assignments will be graded.” Approved by Faculty Council. Please address concern and send back WITH COMMENTS that indicate concern has been addressed.	6/3/2020
No document changes					
Department	Approved	ENG - Engineering - General 011940001	Johannes Van Oostrom	The requested changes have been made. There will be no other ungraded assignments and the text was removed.	9/16/2020
No document changes					
College	Approved	ENG - College of Engineering	Heidi Dublin		9/17/2020
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			9/17/2020
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					

Step	Status	Group	User	Comment	Updated
College Notified					
No document changes					

Course|New for request 14815

Info

Request: EGN 3XXX Artificial Intelligence Fundamentals

Description of request: Course proposal for a course to be part of an AI Literacy undergraduate certificate

Submitter: Johannes Van Oostrom oostrom@ufl.edu

Created: 9/16/2020 3:47:00 PM

Form version: 5

Responses

Recommended Prefix EGN

Course Level 3

Course Number XXX

Category of Instruction Intermediate

Lab Code None

Course Title Artificial Intelligence Fundamentals

Transcript Title AI Fundamentals

Degree Type Baccalaureate

Delivery Method(s) On-Campus

Co-Listing No

Effective Term Earliest Available

Effective Year Earliest Available

Rotating Topic? No

Repeatable Credit? No

Amount of Credit 3

S/U Only? No

Contact Type Regularly Scheduled

Weekly Contact Hours 3

Course Description An overview of Artificial Intelligence (AI), approaching the concept from its origins to expectations for the future. The course will focus on various AI technologies, how to build Machine Learning models, and how to apply AI tools to solve real world problems. Some of the concepts that will be introduced in the course are types of AI and Machine Learning, Hacking and the IoT, AI today and its outlook for the future.

Prerequisites Junior status or above

Co-requisites None

Rationale and Placement in Curriculum This is the first course of a new undergraduate certificate in Artificial Intelligence Fundamentals and Applications we are planning. The certificate and the courses are designed for all majors.

Course Objectives This 3-credit course intends to introduce you to the fundamental concepts of Artificial Intelligence. You will gain experience in:

- o Understanding the history and types of AI
- o Explaining the different methods of Machine Learning and its uses
- o Creating your own Machine Learning models
- o Being an informed user of AI tools

Course Textbook(s) and/or Other Assigned Reading None

Weekly Schedule of Topics Week 1: Class Introduction / AI Introduction

Week 2: Programing / Programing vs AI

Week 3: What is AI and why is it important

Week 4: AI History and Types – Heuristic Systems

Week 5: AI Types – Machine Learning

Week 6: Machine Learning – Supervised Learning

Week 7: Machine Learning – Unsupervised Learning

Week 8: Machine Learning – Build a Machine Learning Model with Watson
Week 9: Machine Learning – Teach Alberta
Week 10: Machine Learning – Create a Machine Learning Model with Google Teacheable Machine
Week 11: Hacking / IoT – Connect “Alberta” to the Google Voice Kit
Week 12: Hacking / IoT and AI today
Week 13: AI today
Week 14: Responsible AI and E-safety
Week 15: Final Project Presentations

Grading Scheme Your performance in the course will be evaluated based on regular assignments, and group projects as follows:

Assignment	Percentage of Final Grade
Homework Sets	30%
In class Assignments	10%
Group Project #1	25%
Group Project # 2	25%
Individual Project	10%
TOTAL	100%

Homework assignments will be given regularly.

Instructor(s) TBD

Attendance & Make-up Yes

Accommodations Yes

UF Grading Policies for assigning Grade Points Yes

Course Evaluation Policy Yes