Course Change Request

Date Submitted: 10/22/17 9:57 pm

Viewing: CSCI 5823 : Modeling Machine Learning

Last edit: 01/02/18 11:38 am

Changes proposed by: jzhang

Prefix:	CSCI	Number:	5823
TCCN: *(if applicable)*			
Academic Component:	Department of Mathematics & Computer Science		
College:	College of Arts & Sciences		
Course Title:			

In Workflow

1. OSAP Editor
2. MATH Head
3. CAS Head
4. OSAP Editor
5. OSAP Head
6. GS Head
7. OSAP Head
8. MATH Head
9. OSAP Head
10. Curriculum Committee
11. Datatel

Approval Path

1. 11/07/17 4:44 pm Scott Martin (smartin4): Approved for OSAP Editor
2. 11/14/17 10:28 am Donald Edwards (dedwards): Approved for MATH Head
3. 11/14/17 1:18 pm Abigail Tilton (atilton): Approved for CAS Head
4. 11/16/17 10:38 am Scott Martin (smartin4): Approved for OSAP Editor
5. 11/16/17 12:32 pm Jennifer Martin (jmartin): Approved for OSAP Head

6. 12/06/17 6:04 pm Carolyn Kapinus (ckapinus): Approved for GS Head
7. 01/09/18 11:48 am Scott Martin (smartin4): Approved for OSAP Head
8. 01/09/18 12:20 pm Donald Edwards (dedwards): Approved for MATH Head

Modeling Machine Learning

Short Title: **MODELING** ~~MODEL~~ MACHINE **LEARNING** ~~LRNG~~

Catalog Description:

Machine learning algorithms and their applications in problem solving and data analysis, data pre-processing, data representation, and machine learning model evaluation. ~~Introduction to Widrow's LMS Algorithm, K-Map Clustering, and various topics from genetic programming and adaptive algorithms.~~Prerequisite: **CSCI 5103.** ~~Permission of the Instructor.~~Three lecture hours a week. Credit: Three hours.

May be repeated for additional credit:
No

Semester Credit Hours: 3

Funding level: 500 - Master's

Malpractice Liability Insurance Required: No

Bloodborne Pathogen Exposure Insurance Required: No

Lab Fee: $ 0

CIP Code:
110102 : Artificial Intelligence.

Undergraduate Degree Requirements: N/A

Course Reviewer Comments

Editing: CSCI 5823: Modeling Machine Learning

To make changes to pre/co-requisites, Instruction Type, SLOs, Course Requirements, or Textbooks; do not utilize this system. The Academic Component leader may email the request to OSAP at curriculum@twu.edu for consideration and approval.

Prefix: CSCI

Number: 5823

Academic Component: Department of Mathematics & Computer Science

College: College of Arts & Sciences

Effective Date of Course: Fall 2019

Course Title: Modeling Machine Learning

Short Title: MODELING MACHINE LEARNING

4 characters remaining

Catalog Description:

Machine learning algorithms and their applications in problem solving and data analysis, data pre-processing, data representation, and machine learning model evaluation. Prerequisite: CSCI 5103. Three lecture hours a week. Credit: Three hours.

168 words remaining

May be repeated for additional credit:

- Yes
- No

Semester Credit Hours: 3

Justification for Addition or Change:

Updating description to current discipline language. Removed specific algorithms which change over time. The study of machine learning algorithms is to better understand and discover information and knowledge from an increasing amount of data each day. It's easy to become overwhelmed by too many statistics and confused by the complexity of data. Machine learning and data mining algorithms use techniques from statistics, optimization, and computer science to create automated systems which can sift through large volumes of data at high speed to make predictions or decisions without human intervention. This course will benefit the MS Informatics program and can serve as an elective course for students who are interested in applications of data science.

Funding level: 500 - Master's

Malpractice Liability Insurance Required: Yes No

Bloodborne Pathogen Exposure Insurance Required: Yes No

Lab Fee: $ 0

CIP Code: 110102 Artificial Intelligence.

Find...

Undergraduate Degree Requirements:

- Core Curriculum
- Global Perspectives
- Core Curriculum & Global Perspective

Additional information:

Supporting documents:

Uploaded Files:

Files To Be Uploaded:

Course Reviewer Comments

Click the "Save Changes" button if you with to save the proposal and come back later to make additional edits. Click "Start Workflow" to submit your proposal to workflow for consideration. Note that if you need to make additional edits to a course once you have submitted to Workflow, you will need to request that the course be rolled back to you by whomever currently has the proposal in their cue.