

**CS 4365 Topics in Soft Computing: Applied Cognitive
Computing**
**CS 5354 Topics in Intelligent Computing: Applied Cognitive
Computing**
Fall 2016

Instructor:

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Office hours: TR 1:00p.m. – 3:10p.m. (or by appointment)

Chat: diego4.aguirre@gmail.com

Meeting times and place: TR 10:30-11:50 in CCSB 1.0510

Introduction:

This course will provide students with the technical knowledge to build apps infused with IBM Bluemix intelligence, while gaining the entrepreneurial vision to deliver their innovations into the marketplace. UTEP belongs to the first wave of universities offering cognitive computing coursework and the next step in IBM's strategy to fuel an ecosystem of innovators making cognitive the new standard of computing.

As a classroom, students will select an industry to focus on and then break into teams to develop prototype apps and a business plan

Course Contents:

- 1) Introduction to Cognitive Computing and IBM Bluemix
- 2) Prototype App Development
 - a) Introduction to Bluemix services
 - b) Bluemix App development
 - c) Platform-specific topics for application development
- 3) Internet of Things
- 4) Smart Cities
- 5) Machine Learning
- 6) Natural Language Processing
- 7) Business Planning

Pre-requisites:

There are no formal prerequisites, but knowledge of programming, elementary calculus, linear algebra, data mining, probability, and statistics is useful.

Grading:

Class participation 5%

In-class assignments/Quizzes 10%

First presentation and report 15%

Second presentation and report 20%

Third presentation and report 20%

Final presentation and report 15%
Prototype Video 15%

Disabilities:

If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

Resources:

The material covered in class comes as a set of resources provided by IBM. These resources will be distributed throughout the semester.

Tools:

- IBM Bluemix

Standards of Conduct and Academic Dishonesty

You are expected to conduct yourself in a professional and courteous manner, as prescribed by the UTEP Standards of Conduct:
http://admin.utep.edu/portals/68/Standards_of_Conduct_2013-2014.pdf

Academic dishonesty includes but is not limited to cheating, plagiarism and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying data (for example program outputs) in laboratory reports. Plagiarism occurs when someone represents the work or ideas of another person as his/her own. Collusion involves collaborating with another person to commit an academically dishonest act. Professors are required to - and will - report academic dishonesty and any other violation of the Standards of Conduct to the Dean of Students.