MIS 457 Emerging Environments
Spring 2017

Credit Hours: 3

Classroom: Pangborn G022
Days and hours of class meetings: Wednesdays, 6:10-8:40 PM (Jan 11 – Apr 26, 2017)

Instructor Contact Information:
Full name and title: Prof. David A. Vargas, MS, CISSP, CISM, CEH
Office location: NA
Phone: NA
E-mail: vargasd@cua.edu

- In all communications, be sure to identify yourself, the course you are emailing about, and the days/times the course meets. Also, the instructor may not be able to accommodate last minute questions or requests so please give him at least 2 business days to reply.

Office Hours: By appointment (before and after each class session)

Course Description (from Cardinal Station http://cardinalstation.cua.edu): In this highly interactive course, students will learn about those new technologies that will most likely impact today's business environments. In addition to reviewing the technological foundations of each emerging technology, students will learn the technology's architecture and develop an understanding of the technology's practical applications. Prerequisites: MIS 110, MIS 431.

Instructional Methods: Methods of instruction for this course include lecture, readings, videos, discussions and formal presentations.

Required Text: None (all readings and reference materials will be provided by the instructor and distributed via Blackboard)

Libraries: The CUA Libraries' wide range of resources and services, including databases, online journals, and FAQs are on the main web site. For assistance on papers and assignments, consult the research guides or schedule an appointment with a subject librarian.

Course Goal: The goal of this course is to familiarize students with those emerging technologies that are expected to most impact both organizations and society.
Goals for Student Learning: At the conclusion of the course, the student will be able to:

- Explain why organizations select certain emerging technologies over others;
- Analyze the strengths and weaknesses of a specific emerging technology;
- Assess why certain emerging technologies succeed while others fail;
- Fully understand those emerging technologies discussed in the course.

Course Requirements

- **Mid-Term Examination:** The mid-term exam will consist of multiple-choice questions. Students will be expected to synthesize the theoretical and practical concepts discussed to date. The examination will cover instructor lectures, the textbook, class discussions; materials posted on Blackboard, and any class handouts.

- **Final Examination:** The final exam will consist of multiple-choice questions. Students will be expected to synthesize the theoretical and practical concepts learned in the course. The examination will cover instructor lectures, the textbook, class discussions; materials posted on Blackboard, and any class handouts.

- **New Technology Paper/Presentation:** Each student will research a new technology. This research will allow the student to explore a technology that was not covered during the course. The topic must be pre-approved. Each student must submit an outline of their paper on the date indicated in the Course Schedule. The paper should be no less than 12 pages and no longer than 15 pages, typed and double-spaced and must be submitted in Microsoft Word format via Blackboard and in APA format. Submissions may be submitted for plagiarism check, if suspected. Academic integrity will be upheld in the execution of this assignment. If any plagiarism is detected, the research paper grade will result in a zero (0) grade. Special guidelines will be distributed later in the course.

**Academic Integrity** Academic integrity is not merely avoiding plagiarism or cheating, but it certainly includes those things. More than anything, having academic integrity means taking responsibility for your work, your ideas, and your effort, and giving credit to others for their work, ideas and effort. If you submit work that is not your own – whether test answers, whole papers or something in-between – I have a responsibility to hold you accountable for that action. I also have a responsibility to treat you with respect and dignity while doing so.

The following sanctions are presented in the University procedures related to Student Academic Dishonesty:

“*The presumed sanction for undergraduate students for academic dishonesty will be failure for the course. In the context of graduate studies, the expectations for academic honesty are greater, and therefore the presumed sanction for dishonesty is likely to be more severe, e.g., expulsion. In the more unusual case, mitigating circumstances may exist that would warrant a lesser sanction than the presumed sanction.*”

There is no group work in the class; therefore, you should not collaborate with classmates on work that is to be submitted for an individual grade.

For more information about what academic integrity means at CUA, including your responsibilities and rights, visit [http://integrity.cua.edu](http://integrity.cua.edu).
**Accommodations for students with disabilities:** Any student who feels s/he may need an accommodation based on the impact of a disability should contact the instructor privately to discuss specific needs. Please contact Disability Support ([dss.cua.edu](http://dss.cua.edu)) to coordinate reasonable accommodations for students with documented disabilities.

**Other Policies or Expectations**

- **Attendance:** This instructor believes that class attendance is vital to the learning process as the healthy exchange of ideas occurs during class discussions. Students will be allowed two excused absences for the semester. Absences that exceed two will result in a 10% reduction of the final grade for every session missed. Of course, unexpected emergencies may arise, but the instructor may request justifying documentation.

- **Blackboard:** This course requires the use of Blackboard ([http://bb8.cua.edu/](http://bb8.cua.edu/)). It is the responsibility of the student to resolve any issues with Blackboard by the second class meeting. Students may not use Blackboard access problems as excuses for not completing assignments on time, etc.

- **Late Policies:** Late submissions, if accepted, will incur a 10% penalty per day.

- **Extra Credit:** There are no extra credit opportunities in this course. The instructor believes it is very important to give every student the same opportunity for success.

**Academic Support Services**

The university’s primary academic support resources are located on the 2nd floor of the Pryzbyla Center. These affiliated offices and services include:

- **Kenneth Killiany** is MSPS’s internal writing tutor who provides individualized writing support. He can be reached at killiany@cua.edu. Please put “Metro SPS Writing Help” in the subject line.

- **The Center for Academic Success** provides academic support services for all students through a broad base of programs and services, including Tutoring Services, Workshops, Academic Coaching, Individual Skills Meetings, Peer Mentoring, and more.

  - **Phone:** (202) 319-5655  **Email:** cua-academicsuccess@cua.edu  **Web:** success.cua.edu

- **The Writing Center** provides free, one-on-one consultations with trained graduate instructors for writing projects across all disciplines at any stage of the process, from brainstorming to revising. Appointments in the main location, Mullen 219, can be scheduled in advance online ([http://english.cua.edu/wc/](http://english.cua.edu/wc/)). Drop-in appointments are also welcome based on availability (see website for days and hours).

  - **Phone:** (202) 319-4286  **Email:** cua-writingcenter@cua.edu  **Web:** english.cua.edu/wc/

- **The Math Center** is staffed with Math Faculty and Tutors who are trained to assist students struggling in areas ranging from the basics to complex problems in calculus and statistics. Any student who feels he or she may need assistance in this or any other math class is welcome to visit the Math Center in Pryz 202 Monday through Thursday between the hours of 4:00 and 10:00pm. No appointment is necessary and services are absolutely free.
Disability Support Services provides programs and services designed to support and encourage the integration of students with disabilities into the mainstream of the university community.

Phone: (202) 319-5211  Email: cua-disabilityservices@cua.edu  Web: dss.cua.edu

The Counseling Center provides free individual and group counseling services, psychiatric consultation, alternative testing, and emergency services to CUA students. In addition, we provide consultation services and outreach programs to the CUA community. Appointments can be scheduled in person in 127 O’Boyle Hall, or by phone.

Phone: (202) 319-5765. Web: counseling.cua.edu

University grades:
The University grading system is available at http://policies.cua.edu/academicundergrad//gradesfull.cfm#II for undergraduates and http://policies.cua.edu/academicgrad//gradesfull.cfm#iii for graduate students.

Reports of grades in courses are available at the end of each term on http://cardinalstation.cua.edu.

Course Schedule:

<table>
<thead>
<tr>
<th>Session</th>
<th>Date</th>
<th>Required Reading Assignment(s)</th>
<th>Class Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 11</td>
<td>• None</td>
<td>• Course Introduction</td>
</tr>
<tr>
<td>2</td>
<td>Jan 18</td>
<td>• Instructor-Provided Readings</td>
<td>• Autonomous Vehicles</td>
</tr>
<tr>
<td>3</td>
<td>Jan 25</td>
<td>• Instructor-Provided Readings</td>
<td>• Drones</td>
</tr>
<tr>
<td>4</td>
<td>Feb 1</td>
<td>• Instructor-Provided Readings</td>
<td>• Robotics (No Formal Class - At Home Assignment)</td>
</tr>
<tr>
<td>5</td>
<td>Feb 8</td>
<td>• Instructor-Provided Readings</td>
<td>• Artificial Intelligence</td>
</tr>
<tr>
<td>6</td>
<td>Feb 15</td>
<td>• Instructor-Provided Readings</td>
<td>• 3D Printing</td>
</tr>
<tr>
<td>7</td>
<td>Feb 22</td>
<td>• Instructor-Provided Readings</td>
<td>• Midterm Exam</td>
</tr>
<tr>
<td>8</td>
<td>Mar 1</td>
<td>• Instructor-Provided Readings</td>
<td>• Augmented Reality and Virtual Reality</td>
</tr>
<tr>
<td>-----</td>
<td>Mar 8</td>
<td>• No Class</td>
<td>• NA</td>
</tr>
<tr>
<td>9</td>
<td>Mar 15</td>
<td>• Instructor-Provided Readings</td>
<td>• Big Data</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>• Paper - Outlines Due</td>
</tr>
<tr>
<td>-----</td>
<td>Mar 22</td>
<td>• No Class</td>
<td>• NA</td>
</tr>
<tr>
<td>10</td>
<td>Mar 29</td>
<td>• Instructor-Provided Readings</td>
<td>• Cryptocurrencies, Blockchain, and Bitcoin</td>
</tr>
<tr>
<td>Date</td>
<td>Instructor-Provided Readings</td>
<td>Wearable Technology</td>
<td>Bots</td>
</tr>
<tr>
<td>------</td>
<td>-----------------------------</td>
<td>---------------------</td>
<td>------</td>
</tr>
<tr>
<td>Apr 5</td>
<td>Instructor-Provided Readings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr 12</td>
<td>Instructor-Provided Readings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr 19</td>
<td>Instructor-Provided Readings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr 26</td>
<td>NA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Special Note**

The instructor may alter the contents of this course at any time to customize the topics to the class or to integrate recent developments in the subject matter. Changes will be announced in class and/or on Blackboard as soon as possible.