EECS 690 – SPRING 2018
SENSORS AND MEASUREMENTS
SYLLABUS

Course
Number: 65745
Location: 2425 LEEP2
Time: Tuesdays and Thursdays 9:30 a.m. – 10:45 a.m.

Professor
Dr. Arvin Agah
Office: 1 Eaton Hall
Office Hours: Tuesdays and Thursdays 10:45 a.m. – 11:45 a.m. or by appointment
Email: agah@ku.edu
URL: people.ku.edu/~agah

Textbook
Class notes provided in class.

Course Description
This course covers the theory and practice of engineering measurements and sensors. Topics include: sensor concepts, measurement theory (statistics and uncertainty analysis), measurement systems and instruments (analog and digital devices, temperature, pressure, velocity, and strain), and sensors (mechatronics, robotics, UAVs, security, vision, and bioengineering).

Credits
3.0.

Prerequisites
Junior, Senior, or Graduate Student in the School of Engineering.

Grading and Schedule
The course grade will be determined according to the given table, including the percentages and the due dates. It is essential to plan accordingly.

<table>
<thead>
<tr>
<th>Item</th>
<th>% of Grade</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>25%</td>
<td>Tuesday, February 27, 2018</td>
</tr>
<tr>
<td>Project Phase 1</td>
<td>20%</td>
<td>Tuesday, March 6, 2018</td>
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<tr>
<td>Exam 2</td>
<td>25%</td>
<td>Thursday, April 19, 2018</td>
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<tr>
<td>Project Phase 2</td>
<td>25%</td>
<td>Thursday, April 26, 2018</td>
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<tr>
<td>Project Presentations</td>
<td>5%</td>
<td>Tuesday, May 1, 2018</td>
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<td></td>
<td></td>
<td>Thursday, May 3, 2018</td>
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</tbody>
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Final grades will be determined based on the scale of:

- A: 90%–100%;
- B: 80%–89%;
- C: 70%–79%;
- D: 60%–69%;
- F: 0%–59%.

Late Items

If an item is turned in late, it incurs a one-third reduction in grade for every day (24 hours) that the submission is delayed. For instance, if an item is due on Tuesday at 1 p.m. and is turned in on Wednesday at 4 p.m., it is considered two days late and will receive a maximum grade of 33%.

Regarding Regrading

A request for regrading must include the graded item and a brief and precise written description of the request. The time frame to request a regrading is two weeks, starting on the date that the graded item was distributed.

Team Work

The class project will be done in groups of students, as teamwork is an essential component of this course. If one is unable to find a group, one will be assigned to a group by the professor. All members of the same team will receive identical scores on the team components. Therefore, it is the responsibility of the team members to ensure fair and equal contributions. No teamwork is allowed on other components of the class. If there is a problem with individual member’s contributions, this must be discussed with the professor early on during the semester in order for timely mitigation. The resolution can range from members increasing their level of efforts, to members being removed from a team. Changing teams in the middle of the class project is difficult, and is only considered as the last resort.

Academic Misconduct

The department, school, and university have very strict guidelines regarding academic misconduct. Copying is not allowed on exams. Students are expected to submit their own work on individual homework assignments and projects. Collaborations on team projects must be reported accurately. Instances of misconduct will result in a grade of zero on the project or exam in question and referral to the department and office of the dean.

Special Needs

“The Academic Achievement and Access Center (AAAC) coordinates academic accommodations and services for all eligible KU students with disabilities. If you have a disability for which you wish to request accommodations and have not contacted the AAAC, please do so as soon as possible. They are located in 22 Strong Hall and can be reached at 785-864-4064 (V/TTY). Information about their services can be found at http://www.access.ku.edu. Please contact me privately in regard to your needs in this course.”