Syllabus

AGRI 3030: Innovations in Agriculture

Instructor

Instructor: Charles Grant, Ph.D., P.Ag., Department of Agribusiness and Agricultural Economics, 374 Agriculture Building, +1 (204) 474-9619, charles.grant@umanitoba.ca

Time & Location

Term/Time: Winter 2019, Tuesdays, 2:30 PM – 5:30 PM
Location: Room 220 Animal Science Building

Course Description

The course is comprised of a series of learning units to study recent Internet of Things (IoT) innovations in agriculture. The units provide exercises for student experiential learning with IoT applications. Students will gain a working knowledge of the Python language as it is used throughout.

Course Objectives

Upon completion of this course the student should be able to:

- Understand and describe recent IoT innovations in agriculture;
- Understand and describe the coding and data that run IoT agriculture;
- Understand and describe the economics behind IoT agriculture;
- Demonstrate a working knowledge of the Python programming language.
Course Materials

Required

Instructions and readings posted on UM Learn
Laptop computer
Mobile phone

Topics

Recent IoT innovations in agriculture;
Coding and data for IoT agriculture;
Economics behind IoT agriculture.

Evaluation and Grading

Grading for AGRI 3030 is comprised of evaluation of four assignments.

Distribution of Marks

<table>
<thead>
<tr>
<th>Evaluation</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>Assignment 1 – Recent IoT innovations in agriculture</td>
<td>10%</td>
</tr>
<tr>
<td>Assignment 2 – Coding and data for IoT in agriculture</td>
<td>40%</td>
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<tr>
<td>Assignment 3 – Economics behind IoT agriculture</td>
<td>10%</td>
</tr>
<tr>
<td>Assignment 4 – Ag IoT project of student’s choice</td>
<td>40%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
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Examination

There is no mid-term or final examination.
Plagiarism, cheating, and examination impersonation

You should acquaint yourself with the University’s policy on plagiarism, cheating, and examination impersonation as detailed in the General Academic Regulations and Policy section of the University of Manitoba Undergraduate Calendar. Note: These policies are also located in your Distance and Online Education Student Handbook or you may refer to Student Affairs at http://www.umanitoba.ca/student.

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