

Dalhousie University Faculty of Agriculture

AGRI5710 and AGRI5705: Graduate Module Course

Module Offering Request

Please complete and send in electronic form to Dian Patterson, Course Coordinator, Haley Institute, dian.patterson@dal.ca. This form must be submitted by the Instructor of the module and approved before the module begins. The Course Outline for AGRI5710/5705 (available at Faculty of Agriculture Graduate Program website, or from the Course Coordinator) provides further details on the course structure.

Application of C# Programming for Agricultural Automation

Instructor:

Dr. Young Ki Chang, Assistant Professor and Biosystems Automation Research Chair
Engineering Department, Faculty of Agriculture, Dalhousie University

Time: Summer/Fall Term 2017

Delivery: This module will be comprised of 6 weeks of 2 hour lectures/labs dealing with basics of Programming in C#:

Background

The .NET frame will be introduced, their application discussed, and hands-on programming sessions held. Particular topics include applications of programming in Visual C# in GUI development, interfacing and control of devices, image & data acquisition, and real-time process control. The module ends with project work and report submission by each student, aiming at solving a problem related to his/her thesis.

Evaluation: Assessment of this module will be in lab coding, the form of weekly assignments and a single report to be submitted at the end of module.

- Laboratory exercise coding (20 %);
- Weekly assignment (30 %); and
- Individual project work (includes presentation and report) (50 %).

Prerequisites:

Enrollment in graduate program