

Graduate Module 1: Introduction to Programming in C⁺⁺

Time: Summer Semester 2010

Background

This module will introduce graduate students in precision agriculture to the syntax of C⁺⁺ and to object oriented programming using C⁺⁺. This graduate module will be offered for the first time in the summer semester of 2010.

Prerequisites:

Enrollment in graduate program

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

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

Module 2: Application of C⁺⁺ Programming in Precision Agriculture

Time: Fall Semester 2010

Background

The Microsoft Foundation Classes (MFC) 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. This graduate module will be offered for the first time in the fall semester of 2010.

Prerequisites:

Module on Introduction to Programming in C⁺⁺

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

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

Instructors:

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