

**Dalhousie University
Faculty of Agriculture**

**AGRI5705
Graduate Module Course
Course Syllabus**

Module Title: **Software to Support the Use of Agricultural Drones**

Instructor: **Dr. Travis Esau**

Contact information:

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Dates module will be offered: **June 2024**

Frequency of formal classes/meetings: **4 weeks of 2-hour lectures/labs**

Module Content and Learning Objectives:

This module will introduce the software suites required for agricultural and mapping drones used in precision agriculture. Students must have experience using ArcGIS Pro software and have already completed the two previous introductory drone modules. This course aims to gain advanced knowledge about agricultural drone software, advanced processing and analysis, GIS, and related precision agriculture technologies, as well as their advanced applications in agriculture to optimize resources.

Method of Evaluation and Distribution of Marks:

The assessment of this module will be in the form of bi-weekly assignments and a single report to be submitted at the end of the module.

Assignment 1: 25%

Assignment 2: 25%

Project Report: 50%

Any restrictions on enrollment: number of students, background preparation or prerequisite courses:

Enrollment in graduate program, experience with ArcGIS Pro software, have already completed the two previous introductory drone modules.