# NRM 211 INTRODUCTION TO APPL IED PLANT SCIENCE (3 credits) Fall ±2019

Schedule(this is an inperson course withwo lectures and one-Bour lab each week):

Lectures	Monday, Wednesday	9:15AM - 10:15AM	AHRB 183
Labs	Monday	2:15PM - 5:15PM	AHRB 1W05

Blackboard (https://classes.alaska.exdill)be used for announcements, lecture notes, handouts and other relevant information.

#### **Course Description**

Basic principles and requirements for plant growth and development with special attention to the production and management of field and greenhouse grown crops.

## **Course Objective**

To guide students to an understanding of the physiological processes controlling plant growth and development emphasizing the implications and applications for plant growth aduction at high latitudes.

## Expected StudentLearning Outcomes:

Enable students to apply current scientific knowledge to effectively handle and understand plant growt undervariousenvironmental conditions, management procedures and infrastructored students with the ability to recognize and appreciate opportunities and challenges for efficient plant and crop production under northern conditions.

## Instructor :

Dr. Meriam Karlsson, Professor of Horticulture

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Office hours	Tuesdays/Thursdays am ±noon, or by appointment, W04AHRB

## Recommended (not required) Text

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Supplemental Text Raven Evaluation Policy: Grades will be based on exams, pl

M M W	Aug. 26 Aug. 26 Aug. 28	Course introduction. Lab I: Landgrant universities and experiment sational content of cultivated plants	p. 2-12 ons p. 250252, 4 <b>%</b> -459
M	Sept. 2	Labor Day ±no class olab	p. 128, 282297, A1-A19
W	Sept. 4	Plant nomenclatur <b>a</b> nd systematics	
M M W	Sept. 9 Sept. 9 Sept.11	Plant cell and tissue structures Lab II: Greenhouses Plant growth substances (hormones)	p. 30-44, 5364 p. 191200
M	Sept.16	Plant gowth substances (hormones)	p. 191200
M	Sept 16	Lab III: Start mineral nutri tion experiment	