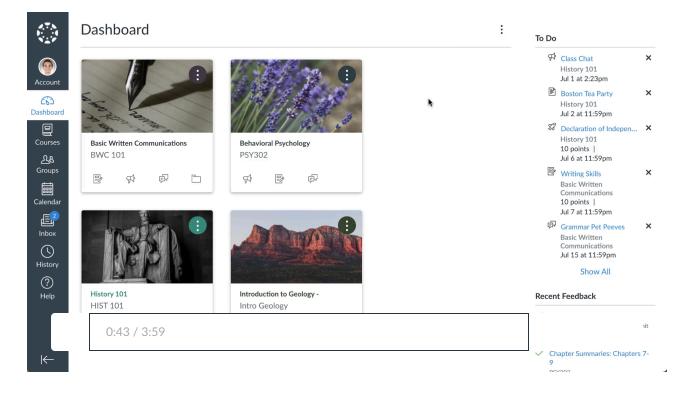# Overview: Start Here

Welcome

The Start Here module contains all of the important information you will need to successfully begin this course. Here you will find course documents such as the syllabus and course schedule as well as links to a wide variety of student support services.

New to Canvas? View the Canvas Overview Tutorials:

Course Learning Outcomes

The following is a list of Learning Outcomes you will achieve upon successfully completing this course. The modules in this course will refer back to these outcomes to provide a clear map to your success.

Upon completion of this course, students will be able to:

1. Formulate the components of a machine learning algorithm

2. Contrast training, test and generalization errors to identify and interpret underfitting and overfitting, and to use methods to cope with underfitting and overfitting.

3. Formulate and implement a k-NN classifier.

4. Formulate and implement the average perceptron classifier.

5. Interpret and extend the perceptron convergence proof.

6. Use linear regression in a real-world prediction task.

7. Use support vector machines and kernels in a real-world classification task.

8. Use linear classifiers in real-world text classification and sentiment analysis tasks.

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