

Overview: Start Here

START HERE OVERVIEW

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:

The screenshot displays the Canvas LMS Dashboard. On the left is a dark sidebar with navigation icons and labels: Account, Dashboard, Courses, Groups, Calendar, Inbox (with a notification badge), History, and Help. The main dashboard area is titled 'Dashboard' and features four course cards arranged in a 2x2 grid. The top-left card is for 'Basic Written Communications BWC 101' with a pen writing on paper. The top-right card is for 'Behavioral Psychology PSY302' with a field of purple flowers. The bottom-left card is for 'History 101 HIST 101' with a statue. The bottom-right card is for 'Introduction to Geology - Intro Geology' with a mountain landscape. To the right of the dashboard is a 'To Do' list with five items, each with a delete icon (X): 'Class Chat' (History 101, Jul 1 at 2:23pm), 'Boston Tea Party' (History 101, Jul 2 at 11:59pm), 'Declaration of Independen...' (History 101, 10 points, Jul 6 at 11:59pm), 'Writing Skills' (Basic Written Communications, 10 points, Jul 7 at 11:59pm), and 'Grammar Pet Peeves' (Basic Written Communications, Jul 15 at 11:59pm). Below the 'To Do' list is a 'Show All' link. At the bottom right, there is a 'Recent Feedback' section showing a green checkmark and the text 'Chapter Summaries: Chapters 7-9'. A progress bar at the bottom left of the dashboard area shows '0:43 / 3:59'.

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.

Banner Art: [Pixabay](https://pixabay.com/)  (<https://pixabay.com/>)