

# AI Course Design & Curriculum

Building a standards-aligned course from learning objectives to assessment.

This sample shows how I design a course: the approach, the learning objectives, a unit outline, and how the work is assessed. The course here is fictional and no client material appears in this sample.

## Course snapshot

**Course:** Applied AI, a one-semester high school elective (fictional).

**Format:** self-paced online lessons with hands-on activities, built for a learning platform.

**Alignment:** mapped to state computer-science standards and an industry AI certification, with each standard tagged at the lesson level.

## Design approach

I work backward from what a student should be able to do. Objectives come first, then the lessons and assessments that get them there. The writing is plain and example-driven, so a student with no background can follow it, and every lesson states its purpose before it introduces a term.

## Sample unit objectives

By the end of the unit, a student can:

- Explain in plain language how a machine learning model makes a prediction.
- Identify where bias can enter a dataset and name one way to reduce it.
- Describe one appropriate and one inappropriate use of an AI tool for a given task.

## Sample unit outline

| Lesson | Focus                          | Activity                                             |
|--------|--------------------------------|------------------------------------------------------|
| 1      | What a model actually does     | Guided walkthrough, then a short prediction exercise |
| 2      | Data and where bias comes from | Interactive: audit a sample dataset for gaps         |
| 3      | Using AI tools responsibly     | Scenario sort: appropriate vs inappropriate uses     |
| 4      | Unit project                   | Build and document a small, honest use case          |

## Assessment

- Short formative checks in each lesson, with a consistent short-answer convention so students always know what a full answer looks like.
- A cumulative unit project that asks students to apply the objectives, not just recall them.
- A simple rubric that scores understanding and honest reasoning, not polish.

## Accessibility and academic integrity

Every image carries alt text, reading level is checked against the grade band, and each unit includes clear guidance on when and how students may use AI on their own work, so the integrity rules are part of the course rather than an afterthought.