1.00 for Life

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Introduction
Benefits of Blended Learning

- Flexibility
- Cost
- Individualized Teaching
How Can We Maximize the Effectiveness of a Blended Learning Model of Teaching?

Blended Learning → Data Collection

Feedback ← Analysis
Data Analysis

- Track student usage of online materials
- Create predictive model to determine student success based on assignments
Analysis of Course Materials

- Supplementary Videos
  - Number of views of segments
- Webpages
  - Number of daily views (Google Analytics)
- Online Forums: Piazza, Google Classroom
  - Number of daily questions
  - Number of daily comments

Goal: to evaluate the effectiveness of materials and their correlation with grades
Predictive Model

- How to measure progress?

- Utility: tool for instructors to determine the likely performance of students on midterm or final
Summary of Goals

- Provide feedback for instructor
- Use predictive model as tool to measure student success
- Create automatic grading system
Classroom

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coding: the new literacy
Projects for the Future

- Expand automatic grading system to other subjects: Math, Biology...
- Design better ways to integrate analytic system into course materials
  - Online IDE
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