Instructional Technology and Course Design

Frank Schultz, Ph.D.
Today’s goals and agenda

• View Course Technologies – CTE Website, bCourses and Study.net
• Identify best practices of designing a course
• Understand how students learn
• Understand the elements of Haas’ Teaching Excellence Model
• Apply a student-centered approach to all aspects of instruction
INSTRUCTIONAL TECHNOLOGIES

Study.net and bCourses
Promoting Teaching Excellence
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<tr>
<th>Course Name</th>
<th>Status</th>
<th>Students</th>
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<th>End Date</th>
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TEACHING AND LEARNING
Teaching and Learning: Excellent teaching

• What do excellent instructors do to create a world class course?

  • Excellent teachers: do whatever helps students achieve long-term learning
Teaching & Learning: A philosophy

Long-term learning

Students need to practice thinking for themselves

Knowledge in the discipline is only a student’s first step

Students need to wrestle with compelling questions

A valuable course changes a student’s view of the world

Developed in Cutting Edge, by Barbara J. Tewksbury (Hamilton College) and R. Heather Macdonald (College of William and Mary) (http://serc.carleton.edu/NAGTWorkshops/coursedesign/tutorial/synopsis.html)
Learning goals: Higher order thinking

- **Remember** (recognize, recall)
- **Understand** (summarize, infer, explain, interpret)
- **Apply** (execute, implement)
- **Analyze** (organize, differentiate)
- **Evaluate** (critique, judge)
- **Create** (generate, plan)

Anderson, Krathwohl and Colleagues 2001, revision of Bloom (1956)
DESIGNING YOUR COURSE
Designing your course

What are the most important parts of designing your course?
Haas’ Teaching Excellence Model

- Learning Goals
- Design & Structure
- Student Learning
- Learning Activities
- Instructional Strategies
- Assessment
Student-centered course design

- **Learning Goals**
  - Knowledge
  - HOT

- **Design & Structure**
  - Topics
  - Order
  - Syllabus

- **Instructional Strategies**
  - Discussion
  - Lecture

- **Learning Activities**
  - In-class
  - Outside class

- **Assessment**

**Student Learning**
LEARNING GOALS
Learning goals

Why are learning goals important?

*Begin designing the course by defining your goals.*
*You can always revise later.*
Learning goals:
Higher order thinking

- **Remember** (recognize, recall)
- **Understand** (summarize, infer, explain, interpret)
- **Apply** (execute, implement)
- **Analyze** (organize, differentiate)
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Anderson, Krathwohl and Colleagues 2001, revision of Bloom (1956)
Learning goals: Application

- Refine and then discuss your learning objectives

- Reduce your list. Consider:
  - Students’ level of development
  - Where course sits in curriculum
  - Other
DESIGN AND STRUCTURE
Topics

Brainstorm potential topics to cover. Stew over it a bit.
Course topics: Focus

- Emphasize the essential.
- Focus on the BIG idea
- Material of high interest to students
- Material that is not covered elsewhere

Limit yourself to 4-7 topics
Order: a narrative structure

Order the topics...

- Chronologically
- In their real world relationships
- As they are used in business, social or career settings
- Grouped in themes or modules
- Developmental – prereqs, novice, expert

From *Tools for Teaching* by Barbara Gross Davis, 2009
Design and Structure: Topics and Narrative
LEARNING ACTIVITIES AND INSTRUCTIONAL STRATEGIES
Learning activities

What should students do – inside or outside of class – to maximize their learning?
Learning activities

In-class
- Discussion or case
- Lecture
- Guest speaker
- Exams or quizzes
- Presentations
- Polling
- Debates

Outside class
- Problem sets
- Reading text/articles
- Case prep
- Research
- Essays
- Reflections
For your first topic, which learning activities would you use and why?
Haas Grading Policy
(effective May 3, 2013)

- Mean Course GPA Requirements for Masters-level Courses
  When assigning grades, the mean GPA in any MBA, EWMB, or XMBA class with enrollments of 18 or more students should be no more than 3.45 in core courses and 3.50 in elective courses. The mean GPA in any MFE core or elective course should be no more than 3.50.

- Grading Requirements for Undergraduate Courses
  When assigning grades to a core course in the undergraduate program, the mean GPA in any class should be no more than 3.20 - 3.40. For elective courses with enrollments of 18 or more, the mean GPA in any class should be no more than 3.40 - 3.60

- https://groups.haas.berkeley.edu/AcademicAffairs/Bylaws/documents/Policy%20on%20Grading%20-%20May%203,%202013,%20with%20additions.pdf
Haas Grading Norms

- **Core MBA:**
  The MBA core courses create a balance between individual performance and the ability to work with others by holding an emphasis on both examinations and participation and group projects. Courses with a specific focus in communication and leadership may weight oral and written assignments greater. The norm is to not have 100% on the final and it is more typical to have a midterm and final.

  **Class Participation and Attendance:** Average of 18% (ranging from 0 to 40%)

  **Exams:** Average of 52% (ranging from 20 to 90%)

  **Writing Assignments:** Average of 17% (ranging from 0-66%)

  **Group Projects:** Average of 9% (ranging from 0-40%)

  **Other (Cases, Projects, Oral Assignments, Research and Homework):** Ranging from 0-30%
Haas Grading Norms

- **Elective MBA:**
  The MBA elective courses focus around a variety of case studies. Students are mainly graded on their execution with individual or group projects based on the cases that are taught. Compared to other programs, there is a large emphasis placed on participation across a majority of these courses. The norm is to not have 100% on the final and it is more typical to have a midterm and final.

  **Class Participation and Attendance:** Ranging from 0-40%
  **Exams:** Ranging from 0-80%
  **Writing Assignments:** Ranging from 0-50%
  **Group Projects:** Ranging from 0-80%
  **Other (Cases, Projects, Oral Assignments, Research and Homework):** Ranging from 0-40%
Haas Grading Norms

- **Core Undergraduate:**
  A vast majority of the undergraduate core courses place a large emphasis on examinations, ranging from 50-85% depending on the topic being taught. The remainder of the course grade is placed on student attendance, participation and assignments. The norm is to not have 100% on the final and it is more typical to have a midterm and final.

**Class Participation:** Average of 9% (Ranging from 0-20%)
**Exams:** Average of 60% (Ranging from 0-85%)
**Writing Assignments:** Ranging from 0-40%
**Group Projects:** Average of 13% (Ranging from 0-40%)
**Other (Cases, Projects, Oral Assignments, Research and Homework):** Ranging from 0-30%
Haas Grading Norms

- **Elective Undergraduate:**
  The undergraduate elective courses place a large emphasis on examinations and group projects. Courses with a specific focus in communication and leadership may have a higher weight on oral and written assignments. The importance of student attendance and participation remains similar to that of the undergraduate core courses. The norm is to not have 100% on the final and it is more typical to have a midterm and final.

  **Class Participation:** Ranging from 0-40%
  **Exams:** Ranging from 0-90%
  **Writing Assignments:** Ranging from 0-65%
  **Group Projects:** Ranging from 0-45%
  **Other (Cases, Projects, Oral Assignments, Research and Homework):** Ranging from 0-30%
Syllabus: The Plan

- Summarizes course narrative, course goals, student activities
- Syllabus is the roadmap for the students
- Your syllabus represents the contract between you and your students
Teaching and Learning: Student-centered

- What BIG questions will this course help **students** answer?
- How will the course trigger **students** to build a new understanding of the world?
- What questions should **students** grapple with?
- What skills and info do **students** need to accomplish these goals?