

Mapping Your Course for **Outcomes Based Education**

Diane Salter Session 2: November 14, 2007





歡迎!

Welcome!

While we are waiting.... Have a seat and introduce yourself to people at your table

Discuss the 'homework' question: How might the mapping process help/not help you to achieve an outcomes based approach?

Comments on WIDS as a tool? Use of templates?

What questions do you want to make sure we address in today's session?





Today's session:

- Consider the program development process
 Consider the role of feedback in program development process

 Consider the 'levels' of curriculum documents

 Discuss 'tools' for mapping

- Apply steps in mapping to your course

Program Development: An Example from Sheridan Institute of Technology and Advanced Learning , Canada
The Development Team

CCFD

Project Lead Researcher(s)

Curriculum Designers

Production Support

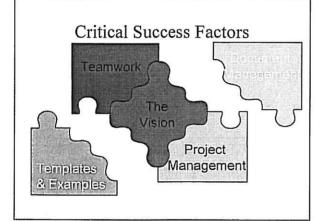


School/Dept

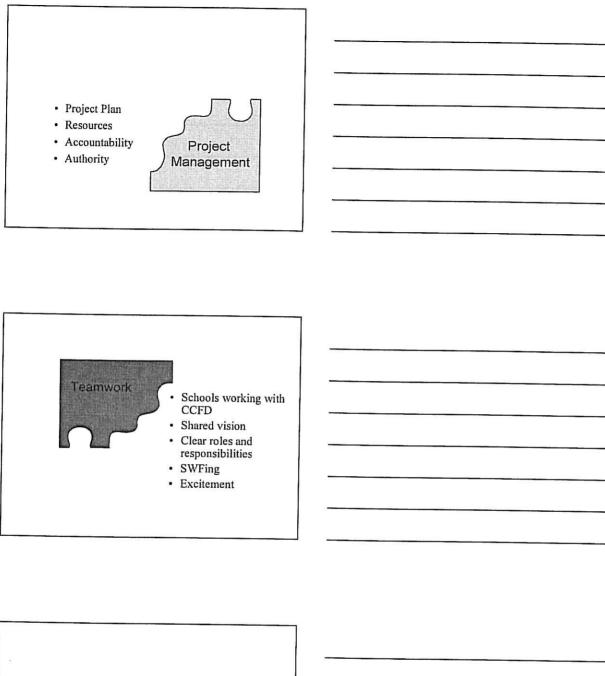
School Project Lead

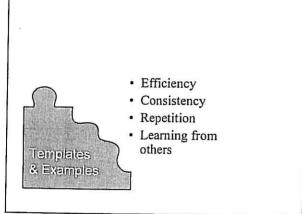
Subject Matter Experts

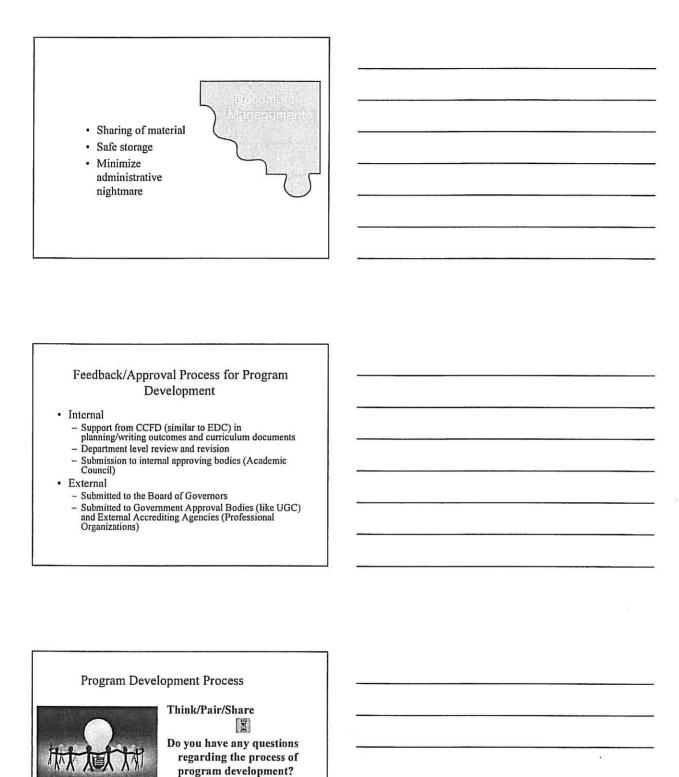
Industry
Program Advisory
Committee



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The Vision	Fit with the strategic direction Economic need Target students Uniqueness	200







Curriculum 'Packages' (see handout)

Basic	Intermediate	Full
Course Outline	Course Outline PLUS	Course Outline PLUS
	Assessment Tools and Appropriate Evaluation Criteria/Rubrics	Assessment Tools and Appropriate Evaluation Criteria/Rubrics PLUS
		Modules by topic to include lesson plans, content resources (such as pp's, pdf, lecture notes), developed instructional strategies, etc.

Curriculum Packages/Course Outlines/Syllabus



In groups

- · Review your course outline
- Review basic requirements in the handout and the 'curriculum documents' handout
- Discuss how you use your course outline. Are there elements missing? What might you add/change?

Writing LO's - Tips: A Learning Outcome Statement ...

- · Begins with a verb
- States something that is observable
- States something that is measurable (directs the evaluation strategy)
- · Integrates knowledge, skills and attitudes

Example for your course / program · Program Level - By the end of the program, the graduate of will have demonstrated the ability to · Course Level - By the end of the course, the student will have demonstrated the ability to Examples of Learning Outcomes (From Ontario College Graduate Certificate in Manufacturing Management) · Program Level - Communicate business-related information persuasively and accurately in oral, written and graphical formats. · Course Level - Create a clear, focused, visual message using presentation software that supports an oral presentation. **Nursing Practice 4** Course level expectation: Critical Performance: · Successful students will have demonstrated the ability to transfer and apply theoretical content and nursing lab skills to the clinical setting safely, accurately and correctly.

Nursing Practice 4

Sample Learning Outcomes:

- · apply the nursing process when providing care
- apply accepted guidelines when practicing the principles of effective and legal documentation
- apply in practice previously learned skills correctly
- assist with bedside procedures
- · monitor and measure drainage devices

cont....

Nursing Practice 4

Learning Outcomes (cont):

- recognize and explain the use of traction, cast care and immobilization devices
- demonstrate proper irrigation of eyes and ears demonstrate respectful care for the body after death
- show respect for self and classmates in the laboratory setting show respect for self, classmates, clients and staff in the clinical setting show caring qualities towards clients in the community and clinical settings
- be responsible as demonstrated by attendance, punctuality and completion of assignments on time

Program Development

Curriculum Planning Requires:

- Consideration of Stakeholder Needs
- Consideration of Government or Accreditation Requirements
- Consideration of Program LO's
- Consideration of Selection of Appropriate 'courses' of study within the
- Consideration of the 'fit' of CLO's with PLO's
- Consideration of the Learning Activities within each course

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Learning Mapping

Provides a framework for mapping out a complete course, unit of study or single instructional challenge, with recommended instructional strategies, task exemplars & templates

Can be paper based (with templates) and/or With 'web-based tools' with online templates

What drives learning? (How do students learn)

- time on task
- student/instructor interaction
- · timely feedback
- active with content
- · interaction with peers (teams)
- rewards/motivation

"I don't lecture, I create an environment for them to learn"

Albert Einstein

Relationship of learning tasks to content

Tasks
are open questions
which students
respond by engaging
with the content.

is a resource to help the student to resolve the task.

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Learning time

Class time

x hour Instructor directed but encouraging active engagement

Learner time

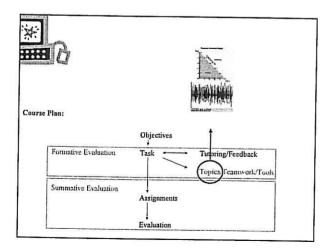
x+y hours (online or off) Engaging in tasks related to course content: e.g.

- Prep for class tasks
- Team tasks
- Assignments
- Online quizzes
- Online discussion
- Reflective blogs
- Others

Might use technology to enrich out-of -class activities

Active Instructional Strategies for: (in class and out of class)

- Exchange Based learning
- · Observation Based Learning
- · Simulation Based Learning
- · Practice Based Learning
- Problem or Case Based Learning



Learning Mapping Applied

In groups



- · Review your course outline
- Apply Learning mapping process (using paper template for one unit of study)
- Consider when to incorporate lectures/tasks/technology
- · Share ideas with full group



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Feedback

Next Steps

LEARNING OUTCOMES

So you Need to Write Learning Outcomes?

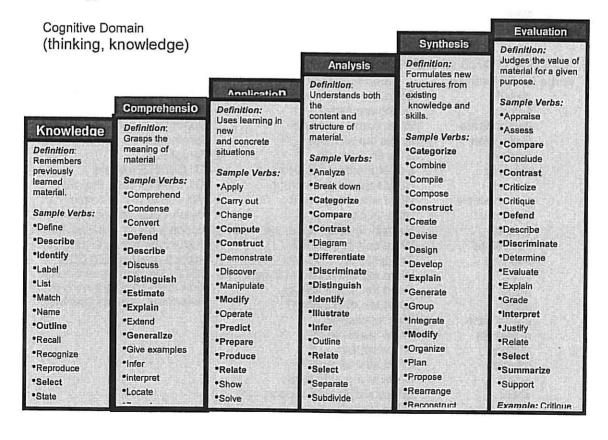
Learning outcomes are:

Behaviourally based
Observable
Measurable
An integration of skills, knowledge and attitudes
Written for both the program, course and module level
The direction for the evaluation strategy

How Many Learning Outcomes in a Course?

- Need enough to clearly reflect what the students will gain from the course
- Usually can be accomplished with 5-12 per course

How do I Choose Appropriate Verbs for the Level of Learning? (Bloom's Taxonomy)



Bloom's Taxonomy "Revised" Key Words, Model Questions, & Instructional Strategies

Bloom's Taxonomy (1956) has stood the test of time. Recently Anderson & Krathwohl (2001) have proposed some minor changes to include the renaming and reordering of the taxonomy. This reference reflects those recommended changes and is a useful resource when writing learning outcomes.)

I. REMEMBER (KNOWLEDGE)

(shallow processing: drawing out factual answers, testing recall and recognition)

Verbs for Objectives

choose describe

define identify label

list locate match

match memorize name

omit recite recognize select state **Model Questions**

Who? Where? Which One? What?

How?

What is the best one? Why?

How much? When?

What does It mean?

II. UNDERSTAND (COMPREHENSION) (translating, interpreting and extrapolating)

Verbs for Objectives

classify
defend
demonstrate
distinguish
explain
express
extend
give example
illustrate
indicate
interrelate

interrelate
interpret
infer
judge
match
paraphrase
represent
restate
rewrite

show summarize tell

tell translate

select

Model Questions

State in your own words. Which are facts? What does this mean? Is this the same as...? Give an example. Select the best definition. Condense this paragraph. What would happen if ...? State in one word ... Explain what is happening. What part doesn't fit? Explain what is meant.

What expectations are there? Read the graph (table). What are they saying? This represents... What seems to be ...?

Is it valid that . . .?
What seems likely?
Show in a graph, table.

Which statements support . . ? What restrictions would you add?

Instructional Strategies

Instructional Strategies

Highlighting

Rehearsal

Memorizing

Mnemonics

Key examples Emphasize connections Elaborate concepts

Summarize
Paraphrase
STUDENTS explain
STUDENTS state the rule
"Why does this example. . .?"
create visual representations
(concept maps, outlines, flow
charts organizers, analogies,
pro/con grids) PRO| CON
NOTE: The faculty member can
show them, but they have to do it.

Metaphors, rubrics, heuristics

III. APPLY

(Knowing when to apply; why to apply; and recognizing patterns of transfer to situations that are new, unfamiliar or have a new slant for students)

Verbs for Objectives

apply choose dramatize explain generalize iudae organize paint prepare produce

select show sketch solve use

Model Questions

Identify the results of

Predict what would happen if Choose the best statements that apply Judge the effects What would result Tell what would happen Tell how, when, where, why Tell how much change there would be

Instructional Strategies

Modeling Cognitive apprenticeships "Mindful" practice - NOT just a "routine" practice Part and whole sequencing Authentic situations "Coached" practice Case studies Simulations Algorithms

IV. ANALYZE (breaking down into parts, forms)

Verbs for Objectives

analyze categorize classify compare differentiate distinguish identify infer point out select subdivide survey

Model Questions

What is the function of . . .? What's fact? Opinion? What assumptions. . .? What statement is relevant? What motive is there? Related to, extraneous to, not applicable. What conclusions? What does the author believe? What does the author assume? Make a distinction. State the point of view of . . . What is the premise? State the point of view of . . . What ideas apply? What ideas justify the conclusion? What's the relationship between? The least essential statements are

What's the main idea? Theme? What inconsistencies, fallacies? What literary form is used? What persuasive technique? Implicit in the statement is . . .

Instructional Strategies

Models of thinking Challenging assumptions Retrospective analysis Reflection through journaling **Debates** Discussions and other collaborating learning activities Decision-making situations

V. EVALUATE (according to some set of criteria, and state why)

Verbs for Objectives

appraise judge

criticize defend compare **Model Questions**

What fallacies, consistencies, inconsistencies appear?
Which is more important, moral,

better, logical, valid, appropriate?

Find the errors.

Instructional Strategies

Challenging assumptions

Journaling Debates

Discussions and other

collaborating learning activities Decision-making situations

VI. CREATE (SYNTHESIS)

(combining elements into a pattern not clearly there before)

Verbs for Objectives

choose combine compose construct

create design develop do

formulate hypothesize invent

make

make up originate

organize

plan produce

role play tell **Model Questions**

How would you test. . .? Propose an alternative. Solve the following. How else would you . . .?

State a rule.

Instructional Strategies

Modeling

Challenging assumptions Reflection through journaling

Debates

Discussions and other

collaborating learning activities

Design

Decision-making situations

References:

Anderson, L. W. & Krathwohl, D. R. (2001). A Taxonomy for learning, teaching, and assessing.

Bloom, B. S. (Ed.). (1956). Taxonomy of educational objectives: The classification of ed

COURSE OUTLINES

What is the role of a course outline?

For the Instructor and the Institution

- A course outline is the primary vehicle for course planning both for initial course planning and revision and updated of courses
- When several instructors teach the same course, the course outline can be used to help maintain standards and consistency
- Course outlines play a role in program review when used to determine which courses may be integrated into new programs

For the Instructor and the Student

- The course outline forms the basis of a contract among the student, instructor, and institution identifying the expectations which will serve as the basis of the student's grade and giving the fundamental required components of the course which the student is guaranteed to receive from the instructor and institution.

For the Student

- A course outline can be used by students to show what they have taken when seeking admission to other programs/institutions or applying for exemptions based on prior coverage of course material

What is the difference between a 'syllabus' and a course outline?

A course outline is a contract that provides the basic components of the course that is used by all instructors teaching the course.

The syllabus goes beyond the basic elements of the course outline to describe how an individual instructor will carry out the course ie by showing specific dates/grading/codes of conduct and other aspects of the course delivery.

What are the basic requirements of a course outline?

- course description
- expected learning outcomes
- assessment plan a grading policy that is clearly based on course learning outcomes
- number of units of study (hours per week or other time schedule/labs or tutorials etc)
- pre-requisites/co-requisites

Other elements?

For 'learning-mapping' and planning course delivery, a listing of the topics associated with each unit of learning is necessary. Learning outcomes for units of learning can be matched to course learning outcomes.

Sample Course Outline - discussusion

Curriculum Documents

Course Outline/Syllabus Course outline includes: Indicates specialized the course description resources required to teach explains the relationship of this course to the program this course or used in if possible highlight relevance to workplace. assessment of students in this learning outcomes course (schools may have evaluation plan specific formats for this indicates any specialized resources required to teach this course component) (eg lab requirements, IT requirements, library requirements, etc.) Topical Outline: Topic by topic, modules or lesson by lesson A description of the module/unit/lesson and if applicable the relationship of the course to other courses in the program. a. Purpose of lesson If possible highlight relevance to workplace. This statement, usually a single paragraph, explicitly references the learning outcomes are being covered in this topic area/lesson or module b.) Describes content resources ie - where the student can go to learn or read about this topic. Identifies sources in the text (section, page b. Sources of reference number), internet resources, magazines, CD ROM's etc. c.) Lesson content overview - may be PowerPoint slides, pdf files, Note taking outline (major headings with fill in the details format), Notes, Professor's lecture notes - generally at high level providing c. Overview overview of content area or skill - students will add details as you speak or they do research d.) Describes learning tasks/activities. Describes plan for formative assessment of in class progress (feedback to work in progress). What will the students do in this class, for homework or both to d) Formative assessment activities/plan for use during this determine if they understand the content material? Detailed module instructions for in class activity, instructions for course assignments or projects related to this module (that may come later but be related to this content module). e.)Describes how the student know that they are on track with learning process if an in class quizzes will be used - Optional, in e.) Quiz or evaluative class or on line quiz for practice - might be included here. instrument

Assessment Tools: Exam/s – sample questions	 a.) Describe why this instrument is used as a means of evaluation and how this instrument is appropriate to ensure that you are able to measure that the outcomes levels achieved by the students are appropriate to the credentialing level required. b.) What learning outcomes does this exam measure? c.) Provide the criteria, rubric or evaluation scheme for exam – may have samples or examples of work as models
Projects or Assignments Describe if this work is something suitable for inclusion in a portfolio.	 a) Describe why this work is assigned as a means of evaluating learning. (ie if group or individual assignment – describe why and how this helps student to meet learning outcomes) b) Describe how this instrument is appropriate to ensure that you are able to measure that the outcomes levels achieved by the students are appropriate to the credentialing level required. c) Describe what learning outcomes is this work designed to measure. d) Describe what the student expected to do for this project or assignment. Provide a sample of the assignment/s. Provide criteria, rubric or evaluation scheme. e.) Describe what the deliverable should look like. Provide samples of student work if possible. You may wish to provide some samples (done by prior students and kept with their consent, or done by yourself as examples of work at different levels.
5. Glossary of terms (or text	Provide resource for the terminology used in this field of study. (may
reference if available)	consider putting this in course outline requirement)

Feedback:

Mapping Your Course for Outcomes Based Education

Date: Nov. 14, 2007. Facilitator: Diane Salter.

Thank you for providing feedback regarding this session. Your comments will

help with planning for the future workshops.
1. What is your role at Poly U?
2. What is your main interest in this workshop, (why do you need to know about) in mapping and outcomes based approaches to OBE?
6. Is there anything else that you would like to add?
3. Did you attend session 1 on Nov. 7? Yes No
A. About this workshop 1. What is your overall rating of this workshop as a learning experience?
1. What is your overall rating of this workshop as a learning experience?
Excellent
2. How useful were ideas discussed in this workshop to your practice as a teacher?
Very Useful
3. Please identify any ideas from this workshop series that will be the most useful to you

u:

PTO and complete back of form

4.	What did you like best about the workshop?
	Mapping Your Course for Outcomes Based Education
5.	What could be improved in this workshop?
	L. What is your role at Poly U?
6.	Is there anything else that you would like to add?
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