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Learning (About) Outcomes: How the Focus on Assessment Can Help Overall Course Design

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ABSTRACT

The demand for quantitative assessment by external agencies and internal administrators can leave post-secondary instructors confused about the nature and purpose of learning outcomes and fearful that the demand is simply part of the increasing corporatization of the university system. This need not be the case. Developing learning outcomes has a number of benefits for course design that go beyond program assessment. This article clarifies some key aspects of the push toward using learning outcomes and introduces a tripartite nomenclature for distinguishing among course outcomes, outputs, and objectives. It then outlines a process for instructors to use these three categories to develop and design courses that meet institutional assessment demands while also improving overall teaching effectiveness.

RÉSUMÉ

L'évaluation quantitative que demandent les agences externes et les administrateurs internes peut confondre les instructeurs de niveau postsecondaires quant à la nature et à l'objectif des « résultats d'apprentissage », et leur faire craindre que cette demande ne fasse simplement partie de la privatisation croissante du système universitaire. Ce n'est pas forcément le cas. La création de résultats d'apprentissage présente de nombreux avantages sur le plan de la conception de cours, avantages qui vont au-delà de l'évaluation de programme. L'article clarifie quelques aspects principaux de la poussée vers l'utilisation de « résultats d'apprentissage » et présente une nomenclature tripartite pour faire la distinction entre les résultats de cours, le rendement et les objectifs. Il décrit ensuite un processus pour

que les instructeurs emploient ces trois catégories afin de concevoir des cours qui répondent aux exigences en évaluation de l'institution, tout en améliorant l'efficacité de l'enseignement dans son ensemble.

Clearly articulated learning outcomes are required by most accrediting agencies and often by those who hold the purse strings of publicly funded higher education. Shanahan summarizes the situation in Canada, no doubt replicated in other countries: "We have seen provincial governments increasingly adopting market mechanisms in funding and resource allocation. Business and private sector criteria are employed to make education decisions.... And we have seen our accountability frameworks become infused with market discourse, market principles and market mechanisms" (Shanahan, 2009, pp. 4-5; see also Côté & Allahar, 2007; Sims, 2002). Although the potential harm that can be attached to using corporate language in higher education is great (see Woodhouse, 2009), the situation is unlikely to change quickly. The demand for quantifiable measurements for assessing student learning is increasing (Diamond, 2008). For example, in summarizing the Ontario Council of Academic Vice-Presidents' Guidelines for University Undergraduate Degree Level Expectations Shanahan states, "University Faculties or Departments must articulate standardized outcomes and degree level expectations for every degree offered" (2009, p. 6). In turn, each course must articulate learning outcomes that are in alignment with these expectations and with degree outcomes.

The pressure to articulate outcomes is not simply a top-down process; it also arises from our students themselves. There is a big difference between students now and students 30, 20, or even 10 years ago. A full decade into the 21st century we are now facing students who have been labelled, for better or worse, the millennial generation or Net Geners (those born after 1982; see Tapscott, 2009). These are students for whom digital technologies such as computers, iPods, and cellphones are everyday tools that they have owned and used for much of their lives, and for whom multi-tasking - working on multiple projects simultaneously or even having multiple (online) conversations at the same time – is common. As part of their culture, such students want and often demand a clear idea of the return on investment of a given activity. On the downside, this contributes to the corporatization of the university, where students demand service for their (tuition) fees and often have a sense of entitlement to top grades, in part fed by the grade compression of their high school years (see Côté & Allahar, 2007). On the upside, however, such students respond favourably to clear directives and are task oriented. Thus, clearly articulated learning outcomes give them a focus for their learning, which they can incorporate into their busy, often hectic schedules.

The overall pressure not only to articulate learning outcomes but also to design clear modes of assessing the realization of these outcomes understandably has many instructors stressed, confused, angry, or some combination thereof. The current economic climate is not helpful, since faculty members are required to do more teaching and research with fewer resources. The move toward learning out-

comes can feel like an unwelcome burden adding to an already heavy load, and faculty members can become exhausted and cynical about the process (Shanahan, 2009). Nor does it help that legislation aimed at promoting quality seems to dilute educational principles by promoting simplistic rubrics to measure learning (Bresciani, 2006). This is unfortunate and need not be the case.

Understanding and planning learning outcomes are essential aspects of effective course design. Embracing the positive aspects of the outcomes initiatives can create opportunities to assess teaching effectiveness and determine how to improve upon it. It goes to the heart of who we are as teachers in institutions of higher learning. Despite popular stereotypes to the contrary, many of us teaching in post-secondary institutions are deeply committed to our students' learning. As a faculty member myself I have wrestled with the critical issues in the learning outcomes movement for some time and offer the following guidelines for designing three critically linked aspects of student learning: course learning outcomes, student outputs, and instructional objectives.

Defining the Terms

Before discussing how to design learning outcomes, it is necessary to examine the terminology that is being employed and introduce some clarifications. Many terms have been used to designate the end result of teaching and learning: aims, purposes, goals, guiding outcomes, content standards, curriculum standards, accomplishments. Anderson and Krathwohl prefer the term objectives, by which they mean "intended student learning outcomes" (2001, p. 3). Even this, however, merges what for others are two distinct but related aspects of teaching: what the instructor intends for the learning in a particular course (objectives) and how the student demonstrates learning in the course (outcomes). My own experience as a faculty member wading through the literature left me confused and frustrated.

The same mixing of terms is present in works discussing program or institutional goals. For example, Maki (2004) discusses objectives as the broad learning of students at the program level and learning outcomes as the measurable work by which students demonstrate their learning. When discussing the institution as a whole, however, she uses the term learning outcomes for the broader learning rather than the measurable work (Maki, 2004, p. 61; cf. Pratt & Associates, 1998). Overall, such muddiness in the use of the term learning outcomes is not helpful to the discussion as it can cause instructors and administrators to talk at crosspurposes with one another and among themselves.

In my experience, much more clear and helpful is the maintenance of a tripartite distinction that separates learning outcomes, student outputs, and teaching objectives. The separation of outcomes and outputs is drawn from the business world (see Performance Measurement Net, 2004), not a particularly popular place for academic metaphors among many faculty members. Nevertheless, I do think it is a helpful distinction to use as accrediting agencies and administrative bodies press institutions more and more toward demonstrating "deliverables."

Learning outcomes identify the deeper learning that a course intends to produce – the overall impact of the course. The outcomes define the attitudes and abilities that should result from the learning but are not necessarily measurable in the short term. For example, an undergraduate course in world religions might identify an outcome as "respect for religious diversity." The value "respect," however, is not easily measured by typical course assessment techniques. It is something an instructor hopes to instill in students but cannot grade through a typical essay or exam format (she cannot know whether a student has truly embraced respect for diversity as a virtue even if the student demonstrates knowledge about diversity).

Student outputs delineate what the student is responsible for in the course, including the nature of the work that will be required for assessment. Assignments provide the occasion for students to demonstrate how they interact with course material while presenting them with opportunities to show the connections and extensions they have made. In order to assist students to understand output expectations it is helpful to distribute a grading rubric for that assignment before it is due. Students need clear directions in order to prepare for and participate in regular learning experiences, and they deserve unambiguous descriptions of course assignments and assessment criteria.

Course objectives explain what the instructor is responsible for in the course. Such input should be linked to one's teaching philosophy and be manifest in one's teaching style. Objectives can be linked to constructivist learning principles that inform course design and delivery, principles such as focusing on subject-centred learning, encouraging deep learning, facilitating interactive learning, teaching to a variety of learning styles, and modelling high expectations.

Morrison, Ross, and Kemp (2004) rightly note that most course objectives aim at short-term goals attainable during a course of study, with only a few contributing to long-term goals such as analytical skill development or decision-making ability that fall outside the direct control of the instructor and must be measured later. Somewhat confusingly, however, they claim that one benefit of naming course objectives is giving direction to learners as to what is to be mastered in the course, yet they admit that high-level objectives are not fully attainable, or at least not fully measurable, within the parameters of the course. Such mixing of terms and descriptions necessitates that an important distinction be made between what is measurable (outputs) and what is desirable (outcomes), while allowing the term objectives to indicate the intention of the instructor in presenting the course subject matter.

Designing the Outcomes, Outputs, and Objectives

The seminal work of Wiggins and McTighe (1998) on "backward design" has proven influential among excellent teachers (Bain, 2004; Richlin, 2006). Through this process the course learning outcomes can be identified, then the outputs can be determined, and finally the learning experiences and instruction modules can be designed (the objectives). This planning process assists instructors to define the

student learning for a course and select the strategies they will use to facilitate and measure that learning (see Mager, 1972).

Identify Student Learning Outcomes

In developing a course it is best to begin at the end with the learning outcomes. Instructors can identify three or four key desired results of their course in one or more of the three primary learning domains: cognitive, psychomotor/skill, and identity (see Figure 1). This is consistent with Bain (2004), who found that effective college teachers were very clear about the promises and opportunities the course would offer students, giving them a sense of the questions it would address or the abilities it would help them develop. Being as clear as possible in framing outcomes statements is essential as these will form the basis of student assessment and the overall design of the course, and thus will serve the key goal of fostering deep student learning (Diamond, 2008).

Learning outcomes explain the deeper learning that the course intends to produce—the overall impact of the course. The outcomes define the attitudes and abilities that <i>should</i> result from the learning but are not necessarily measurable, especially in the short term.				
Learning Domain	Psychomotor/ Cognitive Skills	What do I want my students to understand, know, learn, and/or unlearn? How do I want my students to think? How do I want my students to apply their understanding? What should students be able to do?		
I	Identity	What ethos/attitudes will students embody? How do I want my students to "be" in the world?		

Figure 1. Identify Student Learning Outcomes

In the cognitive domain, which focuses on mental operations, questions might be posed such as these: What do I want my students to understand, know, learn, and/or unlearn? How do I want my students to think? How do I want my students to apply their understanding? Responses should articulate wide-ranging

ideas and concepts that need to be explained or perhaps even deconstructed. They should be broadly provocative while having enough specificity to provide guidance for teaching and allow for clear assessment of learning (Wiggins & McTighe, 1998). In the psychomotor domain, which focuses on physical skills and abilities, one can concentrate on the kinesthetic movements students should be able to perform. In many courses, however, especially in the humanities, one might think here of the specific applications of cognitive operations – the skills the course will engender. In the identity domain, which encompasses things like beliefs, attitudes, and values, the instructor can ask: What ethos and/or attitudes will students embody? How do I want my students to "be" in the world?

A few brief exercises can be employed in order to stimulate thinking about the course learning outcomes. Weimer (2002) suggests that an instructor imagine being in a shopping mall and bumping into a former student who recalls the course from five years earlier. As an instructor, what thoughts would you want to have running through the student's mind in that meeting, what memories brought to the fore? Another way to identify learning outcomes is through a game-show format based on *Jeopardy!* (Wiggins & McTighe, 1998). Begin with the answer to be learned and then articulate the question(s) that would lead to this answer. The key is to identify essential issues that form the core of a discipline, represent the most important and/or controversial topics, recur frequently in the field, and lead to other important questions and issues (Wiggins & McTighe, 1998).

These outcomes are generally quite broad and not immediately measurable during or at the end of the course. For example, one potential outcome for many university courses is that "students will learn to think like a _____," where the blank is filled in with the name of the particular discipline such as historian, scholar of religion, biologist, or the like. Although this response is not measurable in the short term, many instructors hope it will occur as a result of the course, at least for program majors. With this in mind, instructors must also be aware that they are modelling the discipline every time they engage with students.

The core questions and issues in a course may be linked to broad philosophical or ideological commitments, whether addressing the meaning of life (Kronman, 2007) or conveying a body of knowledge and analytical skills (Fish, 2008). Either way, some thought must be given to the overall educational undertaking of a university and the instructor's place in it, beyond what is avowed in the institutional mission statement itself. Why is it one does what one does? How is one sustained in the classroom?

Students learn best when they are able to connect their new learning with their own pre-existing questions and goals in a way that causes them to "reconcile, explain, modify, or integrate" their new learning with their existing knowledge (Bain, 2004; Côté & Allahar, 2007). Defining "big questions" to focus a course helps make connections with what students need or desire to learn from the course, given its broad topic, in order to meet disciplinary needs (Richlin, 2006). For the instructor to keep herself engaged and excited, she should also reflect the current

problems and issues within the field of scholarship. At the very least, an instructor should be able to identify what excites him about the course he is teaching.

At this stage, instructors also need to recognize who it is they are teaching. As noted, the current undergraduate students have grown up interacting with one another through digital technology, and these students expect to be a contributing part of the learning environment (Tapscott, 2009). They are not much interested in a one-size-fits-all model of distributed learning (the prevailing model in higher education) but want to engage and be engaged. It will not be sufficient to identify learning outcomes for these students with words like *understand* or *grasp*, unless there is a commitment to engage their learning styles and needs in a way that fits with their norms. This is a pedagogy that differs greatly from the ways in which most professors experienced their own formative education. To ignore this reality, however, is to doom the educational system to failure and irrelevance for the next generation of leaders and scholars.

Alongside these characteristics, however, these students tend to be instrumental about their studies, giving greater value to course materials and assignments that have a direct link to what they see as their future employment (Côté & Allahar, 2007). As a result, students can become obsessed about their grades rather than their learning, a disturbing trend that needs to be reversed, so that students do not continue to be disengaged from their studies (Côté & Allahar, 2007). Recognizing that this is a factor in the classroom and naming it for students can begin to address the problem. Often those of us teaching courses that are not obviously connected to a particular professional skill assume that students will bridge the gap. For example, we assume that students will notice that they are learning to be critical thinkers and will know that this will help them problem-solve in their future profession (whatever it might be), and thus they will be engaged. Unfortunately, such bridging on the part of the students is not taking place (Côté & Allahar, 2007). So while the notion that we are teaching transferable skills is not misplaced, it is incorrect to assume that students recognize it on their own. Articulating transference of classroom learning and skill acquisition to the workplace can be one way to help students engage with course material. The obvious place to articulate the value of learning transferable skills is the course learning outcomes on the syllabus.

Determine Student Outputs

Once the broader concerns of the course and the large issues and questions that the course addresses are identified, the specific, measurable aspects of student learning can be established (see Figure 2). At this stage of course development instructors can identify the type of evidence needed to determine whether students are making progress toward or attaining the learning outcomes, one of the most important steps in course design (Richlin, 2006). In order to do so, one must attempt to identify what students need to do to provide convincing evidence that

they have indeed learned from participation in the course (Diamond, 2008). Some evidence may be present within the class itself; other evidence may need to be assessed through student assignments.

Student **outputs** delineate what the student is responsible for in the course, including the nature of the work that will be required for assessment in the course.

		Т		
			Type of evidence to	Type of evidence to
			be observed	be assessed
	Cognitive	Key verbs: write, list, define, describe, identify, show, label, collect, examine; explain, interpret, contrast, estimate, differentiate, discuss, illustrate, compose, formulate, rewrite; analyze, connect, classify, decide, rank, test, measure, recommend, support, argue, compare, etc.		
Learning Domain	Skills	Key actions: attempt, copy, imitate, mimic, play, perform, produce, perform masterfully, adapt, alter, customize, etc.		
	Identity	Key actions: being attentive to a particular context, showing some new behaviours as a result of experience, showing some definite involvement or commitment, integrating a new value into one's general set of values, giving something a ranking among one's general priorities, etc.		

Figure 2. Determine Student Outputs

It is critical that the descriptions of student outputs are framed in a way that is measurable. Too often the types of outputs given on syllabuses are vague and unmeasurable; that is, they contain no verbs for performance that identify how the instructor could know that the learner has made progress, or, worse, they are simply so vague as to be meaningless (Morrison et al., 2004; Mager, 1975; Dia-

mond, 2008). Poorly crafted outputs contain phrases such as "have a thorough understanding of," "demonstrate comprehension of," or "have an awareness of" or make reference to ephemeral, internalized traits such as self-confidence, self-respect, or self-esteem. While these latter traits are not to be eschewed in the learning process, they are not measurable in and of themselves, even when linked to a particular action (e.g., "demonstrate confidence in presenting an oral report," which may really measure only students' acting ability and not their level of confidence). One must use clear language that will explain what the students will do to attain the learning outcomes identified (Bain, 2004); it may be framed by wording such as "Students completing this course will be able to," with the actions that follow listed in ascending level of difficulty (Richlin, 2006, p. 120).

Selecting the action verb that best describes the learning behaviour required of a student is difficult. Nevertheless, appropriate outputs are the key to the process, and without them the objectives will fall flat and the outcomes will not be attained (Morrison et al., 2004; Vella, 2000). Verbs that are vague, unclear, or open to multiple interpretations are not helpful guides for students and will not allow for clear assessment by the instructor. A description of student outputs should state what the learner is expected to do (performance), clarify the circumstances under which the learner is to do it (conditions), and describe the levels of acceptable performance (criteria) (Mager, 1975; Richlin, 2006; Diamond, 2008). For example, an assignment might state: "Given the circumstances at the end of the Second World War [condition], write [performance] a 10-page paper [condition] analyzing [performance] the Allies' position on the surrender of Germany, using three academic resources [condition]. It will be graded according to the rubric set out in class [criteria]."

It is important to focus on the proper learning domain (cognitive; psychomotor/skill; identity) and to develop the student outputs accordingly. Moreover, within each domain the emphasis on lower-order skills or higher-order skills, or an appropriate balance between them, must be maintained. Bloom's taxonomy is the usual paradigm for determining the levels of learning in each of these domains (1956), although Anderson and Krathwohl (2001) have produced an important and helpful update that rightly reorders and redefines some of Bloom's seminal work. Their update of the understanding of the cognitive learning domain has developed outcome-oriented language by changing all the labels from nouns to verbs in order to emphasize the active nature of learning (see figure 3, adapted from Anderson & Krathwohl, 2001 and from McKeachie & Svinicki, 2006). The inclusion of a variety of verbs allows instructors to select outputs that will appeal to different learning styles, another key aspect of student learning (McKeachie & Svinicki, 2006).

Once course outputs are identified, the challenge remains to determine where they fit best into the course in terms of student learning, keeping in mind that a course must use sequencing or scaffolding. Not only must the assignments follow learning experiences in which students are given the tools necessary to complete the assignments, but the overall flow of the course must build from a foundation

up (see Weimer, 2002). In order to reflect this process adequately, the identification of outputs on the course syllabus should reflect the order in which they will be discussed within the class (likewise, learning outcomes and instructor objectives should mirror the scaffolding used in the course).

Lower-Order Higher-Order					
Remember	Understand	Analyze	Apply	Evaluate	Generate
Retrieve	Construct	Subdivide	Use	Come to a	Reorganize
pertinent	new meaning	content into	procedures	conclusion	elements
facts from	by mixing	meaningful	to solve	about	into a new
long-term	new material	parts and	problems or	something	pattern,
memory	with existing	relate the	complete	based on	structure, or
	ideas	parts	tasks	standards/	purpose
				criteria	
Recognize	Interpret	Differentiate	Solve	Critique	Create
Recall	Exemplify	Organize	Illustrate	Judge	Plan
List	Classify	Attribute	Calculate	Choose	Produce
Name	Summarize	Analyze	Use	Estimate	Design
Identify	Compare	Deduce	Interpret	Defend	Hypothesize
Show	Explain	Contrast	Manipulate	Criticize	Support
Define	Describe	Compare	Apply	Compare	Schematize
State	Paraphrase	Distinguish	Modify	Rate	Report
Visualize	Differentiate	Discuss	Complete	Value	Justify
Tell	Demonstrate	Plan	Implement	Assess	Categorize
Describe	Defend	Devise	Show	Estimate	Combine
Label	Distinguish	Diagram	Examine	Measure	Compile
Collect	Paraphrase	Inspect	Relate	Select	Compose
Examine	Predict	Examine	Experiment	Score	Organize
Quote	Recognize	Categorize	Discover	Revise	Synthesize
Record	Summarize	Appraise	Classify		
Id	leas	Compre	hension	Exte	ension
← Scaffolding →					

Figure 3. Cognitive Learning Domain

At this point one can draw up a skeleton of the units in the course, without any content but showing the distribution of the student outputs that will be submitted to the instructor (for examples see Walvoord & Anderson, 1998). The individual course units can be placed within the skeleton so as to provide the students with the data and tools they need in order to complete a particular assignment. This runs against the tendency to want to provide students with "coverage" and focuses on empowering students to progress through the course.

Grading is also an output consideration, since it goes hand in hand with the setting of student outputs (Hussey & Smith, 2002; Leskes & Wright, 2005). In as-

sessing student work it is important to convey to the students the criteria used to measure the degree to which their output has attained the expectations for the assignment (and the criteria must match the aim of the assignment). Lack of adequate assessment will inhibit attempts by the instructor and the student to comprehend the effectiveness of the learning process (Bain, 2004; Mager, 1972). Once the student outputs have been articulated, they can be evaluated in terms of the extent to which each one provides "a valid and reliable measure of the targeted understandings," "sufficient information to support inferences about *each* student's understanding," and "opportunities for students to exhibit their understandings through authentic performance tasks" (Wiggins & McTighe, 1998, p. 187, their emphasis).

Plan Teaching and Learning Objectives

In the third stage of the design process attention turns to what is often one of the first items to appear on a course syllabus: the objectives. Among the best college teachers, the syllabus represents the opening of a dialogue between instructor and student in which they explore together how learning will proceed and how it will be adjusted throughout the semester (Bain, 2004). The teaching objectives outline how this process will take place by conveying to students the intentions of the instructor (Mager, 1975). In a nutshell, the objectives represent all aspects of the course for which the instructor has responsibility and to which students can hold her accountable (see Figure 4).

Course **objectives** explain what the instructor is responsible for in the course. Such input

		Type of evidence (from Figure 2)	Learning experiences that will prepare students to demonstrate their learning
Learning Domains	Cognitive		
	Skills		
	Identity		

Figure 4. Planning Teaching and Learning Objectives

For each student output the instructor needs to determine the kinds of learning activities and teaching support needed by the students in order for them to be able to produce the required outputs. These activities are not (yet) lesson plans but do delineate the types of knowledge and skills that will orient the students; the kinds of inquiry, research, problem solving, or experimentation in which the students will engage; and the nature of the formative feedback they will receive along the way (Wiggins & McTighe, 1998).

Assess Connections Across the Design

A final step allows the instructor to view the overall design and construct the course description (see Figure 5). Having listed the outcomes, outputs, and objectives in the appropriate columns, one can check whether they line up and support one another (this may take some rearranging of the order in which they are listed). If so, the course description can be composed. If not, the omissions must be addressed by determining whether to remove orphaned items or add material so that there is integration. This exercise provides an opportunity to check the consistency and coherence of the design and assess the learning outcomes, outputs, and objectives.

		OUTCOMES	OUTPUTS	OBJECTIVES
Learning Domain	Cognitive			
	Skills			
	Identity			
Course	Description			

Figure 5. Assess Connections Across the Design

Application and Results

Although no formal quantitative testing of this model has been conducted, preliminary applications in my own courses indicate that students value the clear articulation of course outcomes and outputs. I first used this model in an upper-year theological studies course on the contexts and contents of first-century Christian letters. On the syllabus distributed to students I clarified the language I was using by adding some descriptions:

- Objectives: "What you can expect from me in this course"
- Outputs: "What I will expect from you in this course (and will measure)"
- Outcomes: "What I hope you will develop through this course (but can't measure)"

Students' comments during the course and on the course evaluations expressed appreciation for the clear connection between their assignments and the specific learning that course units and readings were designed to facilitate. In the summative formal course evaluations the average student ranking was a perfect 5/5 for each of the questions concerning the excellence of the course, the effectiveness of the instructor, and the amount of learning the course facilitated. To be sure, this is gratifying, but of more consequence is my own observation that students participated better in class discussions and produced essays that showed a deeper engagement with the material than had been my experience in previous years.

Although my experience in using the tripartite design model in revising a course was positive, I found the process of thinking through outcomes, outputs, and objectives particularly helpful when designing a new course ancillary to my direct field of research and teaching. When invited to teach a short (five-week) course on business ethics, I employed the rubric to help establish what could and could not be accomplished in the given time frame, which resulted in figure 6. The final course description was transferred to the first page of the course syllabus and was followed by the objectives, outputs, and outcomes (see Figure 7). Not having taught the course before, I cannot compare the results with previous years of student learning. I can attest, however, that I found the process of identifying outcomes, outputs, and objectives helpful in focusing course material toward learning and in resisting a typical tendency (for me) to attempt to cover too much material at the expense of focused and engaged work in the classroom.

As I have developed and worked with increasing attention to assessment in course design, I have had the opportunity to introduce my model to my institutional colleagues and to instructors across North America through consultations and workshops. The response has been favourable as many instructors have found, as did I, that confusion around the language of learning outcomes and assessment masks their true utility for improving teaching and learning.

		OUTCOMES	OUTPUTS	OBJECTIVES
Learning Domain	Cognitive	Understand four key ethical approaches. Understand the need for ethics in business.	Demonstrate pre-class preparation (reading and reflection) and articulate key concepts and ideas in discussions.	Introduce students to analytical tools for resolving complex ethical issues in business contexts.
			Demonstrate an ability to identify and analyze ethical issues, conflicts, and responsibilities in business contexts.	Provide examples of analyses of corporate codes of ethics and complex business cases. Provide ample time and opportunities for students to participate in class discussions of cases.
	Skills	Develop skills to analyze, assess, and address ethical conflicts or dilemmas in business cases.	Construct and communicate rational, responsible, and realistic responses to a current business case.	Develop students' analytical skills for resolving ethical issues.
	Identity	Develop a clear sense of one's own ethical obligations and personal responsibilities in pursuing a career. Identify factors that will challenge and change one's moral compass. Acquire courage to make principled choices in the face of ethical challenges.	Demonstrate critical awareness of values and morality in case discussions in class. Demonstrate critical awareness of biases.	Facilitate students' understanding of themselves as ethical thinkers through various in-class analytic and evaluative tools.
This course is designed to provide students with opportunities to apply et reasoning to the demands of business behaviour through the examination case studies. We will apply four key ethical principles to case studies in case explore the various ways in which business practitioners and ethical theorem have addressed issues that arise in business contexts.			igh the examination of s to case studies in order to	

Figure 6. Business Ethics Course Design

OBJECTIVES

- to expose students to the complexity of ethical decision making in business organizations
- to provide ample time and opportunities for students to participate in class
- to develop students' analytical skills for resolving ethical issues
- to facilitate students' understanding of themselves as ethical thinkers

OUTPUTS

By the end of the course students will be able to

- demonstrate pre-class preparation (reading and reflection) and comprehension of key concepts and ideas during class discussions
- identify and analyze ethical issues, conflicts, and responsibilities in business contexts
- construct and communicate rational, responsible, and realistic responses to ethical issues
- articulate their own values and morality

Students will exhibit this through

- pre-class preparation and substantive contribution to class discussions and activities (30%)
- a written analysis of a code of ethics from a business setting (20%)
- a take-home examination that uses two key ethical principles to analyze a recent business ethics case in the news (50%)

OUTCOMES

- develop skills to analyze, assess, and address ethical conflicts or dilemmas in business cases
- comprehend four core ethical approaches and the need for ethics in business
- develop a clear sense of one's own moral obligations and personal responsibilities in pursuing a career and the factors that will challenge and change one's moral compass
- acquire courage to make principled choices in the face of ethical challenges

Figure 7: Business Ethics Syllabus

CONCLUSION

Pocklington and Tupper (2002) note in their rather scathing, if not depressing, outlook on Canadian universities that the future of teaching and learning involves commitment to moving beyond "adult daycare" to challenge students and stimulate engagement. Embracing the positive aspects of using learning outcomes will assist instructors in the design of such educational experiences by providing a structured mechanism for developing courses that integrate student needs, instructor expertise, and disciplinary requirements. The investment of thought and

effort in developing learning outcomes, student outputs, and course objectives will increase student learning while meeting the demand from institutions and accrediting agencies for precise and measurable ways of demonstrating that learning. •

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