Program-Level Assessment of Learning Outcomes in a Faculty Certificate Program on the Scholarship of Teaching and Learning

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Introduction

On an international scale, higher education reform is having a profound impact on organizations and institutions, where there are now mandates and requirements to implement explicit learning outcomes and assessment policies for all undergraduate curricula (Bresciani, 2006; Hubball & Burt, 2004; Hubball & Burt, 2007). Program-level learning outcomes are a central component of learning-centred curricula and inform students what they can expect to achieve from a program of study so that they may organise their time and efforts, and prepare for assessments. They also connect segments of a curriculum, thus enhancing transferability of student learning, communicate curriculum/program goals in a meaningful way to a broader community, help to determine the extent to which learning has been accomplished, and guide faculty and administrators (within resource constraints), in part, to determine program(s) of study, course objectives, appropriate learning experiences, and assessment and program evaluation strategies (Barab & Duffy, 2000; Hubball & Gold, 2007). This paper highlights program-level assessment of learning outcomes in an 8-month Faculty Certificate Program (UBC-FCP) on the scholarship of teaching and learning (SoTL) at the University of British Columbia (UBC).

Program Context

The UBC-FCP on SoTL began in 1998. UBC, Canadian, and International faculty members participated in the program to investigate critical curriculum and pedagogical issues within their department (e.g., curriculum re-design, evaluation of curricula, PBL, staff development, web-based learning), while some faculty members embark on this program for personal reasons to improve course design, teaching, learning strategies, and assessment practices. The UBC-FCP has graduated nine multidisciplinary faculty cohorts since 1999. UBC President Stephen Toope awards the Certificates to graduating faculty at Green College in May following completion of the program. Faculty graduates include national and international
teaching award winners, CRC’s, full professors, tenured faculty, tenure-track faculty and instructors from across UBC campus (Hubball & Poole, 2004; Hubball, Pratt, & Collins, 2005; Hubball & Burt, 2006; Hubball & Albon, 2007).

The aim of the UBC-FCP is to enhance SoTL in multidisciplinary settings. Essentially, SoTL is an approach to academic work that integrates research, teaching, and learning. The literature differentiates between scholarly approaches to teaching and learning, and the scholarship of teaching and learning (Richlin, 2001; Kreber, 2001; McKinney, 2004). In the context of the UBC-FCP, the following operational definition for SoTL guides curriculum, and teaching and learning processes. Scholarly approaches to teaching and learning refer to on-going professional development, reflection, and initiation of positive changes to curricula and/or pedagogical practices. Taking this concept to the next level of rigour, SoTL refers to the dissemination of practice-driven curricula and/or pedagogical research in peer-review contexts.

Action Research and Program-level Assessment of Learning Outcomes

Action research (AR) methodology is at the very heart of SoTL. In this context, AR was employed to strengthen the underlying theory/rationale for learning experiences within a program, and gain authentic data on which to (cyclically) reflect on the effectiveness of processes and outcomes (Altrichter, Psch, & Somekh, 1993; Hubball & Clarke, 2004; Hubball & Levy, 2004; Wolfe, Hill, & Evers, 2006). Action research methodology was employed to address four specific research questions pertaining to program-level assessment of learning outcomes:

1. What are the critical factors when developing program-level learning outcomes?
2. To what extent are learning outcomes reflected in program learning experiences?
3. When and how do faculty members demonstrate learning outcomes in this context?
4. What are the overall reflections for implementation of program-level learning outcomes in this context?

The following data were gathered to address the above research questions: a critical review of faculty members’ SoTL portfolios; program literature sources from the website and curriculum materials; cohort members’ program evaluation feedback pertaining to the quality of program, teaching and learning experiences; focus group interviews with cohort members’ video footage of research presentations; and instructors’ debrief and review of lecture notes.

Results

1) What are the critical factors when developing program-level learning outcomes?

The following framework and critical elements guided the development and implementation of program-level learning outcomes:

**Learning context strategies.** This refers to a comprehensive needs assessment which was conducted by consulting with various sources (e.g., a focus group of UBC faculty members from various academic ranks and disciplines who were committed to the SoTL and willing to participate in a pilot-program) to guide the development of program-level learning outcomes.

**Planning strategies.** This refers to the logistics of program scheduling, as well as the development of explicit core program-level learning outcomes; i.e., in the context of the SoTL, UBC-FCP faculty will demonstrate: 1) the acquisition, application and integration of SoTL knowledge; 2) research skills, including the ability to define problems and access, retrieve and evaluate SoTL information; 3) a critically reflective practice and problem-solving abilities with respect to SoTL; 4) responsible use of ethical principles; and 5) effective leadership, communication, and interpersonal skills (Table 1 shows how specific learning outcomes relate to UBC-FCP learning experiences).
**Assessment strategies.** This refers to the implementation of a wide range of assessment methods (e.g., self-reflection, peer-feedback, instructor feedback, and external peer-review) to assess program-level learning outcomes.

**Programming strategies.** Depending on Prior Learning Assessment (PLA), each faculty participant in this FCP context follows an individual learning plan which combines theory, practice, and critical reflection. Guided by the program-level learning outcomes, faculty participants have on-line weekly assignments, as well as a meeting each month, and at different locations on campus to engage in a wide range of independent and/or collaborative learning experiences.

2) To what extent are learning outcomes reflected in program learning experiences?

A faculty member’s SoTL portfolio is a compilation assignment used to demonstrate how program-level learning outcomes (listed above) feature in a wide range of authentic learning experiences. Table 1 captures the range of UBC-FCP learning experiences that are employed to address the five UBC-FCP program-level learning outcomes.

3) When and how do faculty members demonstrate learning outcomes in this context?

For example, feedback on a faculty member's teach-
ing dossier is provided at four key incremental stages throughout the 8-month program. Further, an external review takes place at the 40 and 60 percent (informal formative feedback provided toward each SoTL assignment within the faculty member’s portfolio) stages of the program, as well as during the final month (formal summative process) of the 8-month program. In the context of a wide range of UBC-FCP learning experiences, this not only allows for progressive development of each assignment within the SoTL portfolio, it also staggersthe completion deadlines for overall SoTL assignments and demonstration of program-level learning outcomes.

4) What are the overall reflections for implementation of program-level learning outcomes in this context?

The flexibility, quantity, and quality of overall program-level learning outcomes are critical issues when shaping teaching, learning, and assessment experiences. In many cases, learning experiences integrated multiple and overlapping program-level learning outcomes. This was not viewed as excessive, redundant, or repetitive, but rather an indication that program-level learning outcomes can be interpreted in different ways and demonstrated in many authentic ways. Too many program-level learning outcomes, however, can create surface learning rather than deep and meaningful learning. Not all faculty members were aware of the implicit connections between program-level learning outcomes and program experiences. Furthermore, a number of faculty members were unsure about the priority of program-level learning outcomes over personal and alternative outcomes. Thus, the development and implementation of program-level learning outcomes is not an exact science. Furthermore, programs involve complex, multifaceted, and contextually-bound program realities and are influenced by many people at various levels of implementation.

Conclusion

Universities and academic units face considerable challenges in developing, adopting, and implement-


