Getting started in course and assessment design

As the new academic year approaches you may be reviewing your course and assessment design. This guide will provide you with key points to get started to ensure that your course assessment and activities are constructively aligned with the learning outcomes.

When we plan a new course, or review an existing course, there are three things it is helpful to think about:

1. What do we want the students to learn? (What are the learning outcomes?)
2. How will we know whether the students have learnt those things successfully? (What are the assessments?)
3. What will students need to do in order to be in a position to demonstrate they’ve learnt those things successfully? (How will the course be taught?)

There will be many other things that matter: our workload, particular teaching approaches we are comfortable with, restrictions generated by professional accreditation, and many more. But those are the three fundamental questions that we need to answer in order to plan a course.

A focus on learning
This approach is a very ‘student-centred’ way of thinking about a course, meaning that we focus on what students will be doing on the course, and what they will leave the course with, rather than on what we will be doing. For example, rather than worry just about what information is on our PowerPoint slides, we focus on how students will engage with that information: will they discuss it with each other, will they connect it to things they have learnt in previous courses, will they apply it to real-world examples? And rather than design an assessment based on the content that we have covered in lectures, we think about how students will demonstrate that they have attained the learning outcomes.

Pulling in the same direction
Thinking about those three questions can help to make sure that the different aspects of the course are pulling in the same direction. If the learning outcomes, the assessments and the learning and teaching do not connect together properly, students’ energies are not directed efficiently. For example, if the learning outcomes are focused on the practical application of knowledge, but the assessment rewards rote learning, and the teaching concentrates on factual content, then probably no-one is happy. Those teaching the course are likely to be disappointed that students focus on cramming rather than understanding, while students probably feel there is a gap between the rhetoric of real-world application and the reality of what they are asked to do.

On the other hand, if the learning outcomes are well-written, the assessments focus on students’
achievement of them, and the teaching prepares students well for the assessments, then there is less scope for that kind of disappointment: it is much more likely that students will learn in the way we intend.

**A refresh not a revolution**
This approach – focused on aligning the learning outcomes, the assessment and the teaching – is not a revolutionary approach to planning a course. We will all start with a sense of what we want students to come out of the course with, whether we think about that in terms of formal learning outcomes or not. The approach described here, of starting from the learning outcomes and planning the course from there, provides a reminder to go back to the fundamental question: how do we want students to be different – in what they know, in what they can do, in what they are interested in – when they leave our course?

**Top tips for course and assessment design**
These top tips will help you review existing courses or design new ones. When planning the course and assessment, remember to consider the student voice. This may come from previous feedback on the course, engagement with student representatives during the design or even co-creation with student partners. Also keep accessibility in mind throughout the design process. It is more effective to build in accessibility from the start of a course than to add it later (Cast, 2018).

1. **Plan your course learning outcomes.**
   Do they clearly articulate what students will understand and be able to do by the end of the course? Can the achievement of the learning outcomes be validly assessed? Are they pitched at the appropriate level for the course? (The SCQF level descriptors are useful for benchmarking the level.) If the learning outcomes are not appropriate, then seek permission to revise them under the current Heriot-Watt expedited approval process.

2. **Plan the assessments.**
   Assessment and feedback should be planned to work together, and to fit with the learning outcomes, the teaching and learning.
   - Do the assessments enable students to demonstrate the learning outcomes? Is the method of assessment the most appropriate for assessing that learning outcome? If they do not, revise the assessments.
   - Do the assessments help students to learn? Make sure that you aren’t over-assessing students; give them space and encouragement to think about what they can learn from doing assessments, as well as the grades they can achieve.
   - Do students understand the purpose and value of the assessments? If not, make clear how the assessments link to the aims of the course, and their relevance to what students may do when they graduate.
   - Do students understand what you expect from them? To help students develop a clear sense of the assessment requirements, give them clear criteria and/or rubrics, and examples of high- and low-quality work.
• Do students get feedback that they can use to improve? Make sure that students receive feedback before the end of the course, so they’ve got time to apply it. Feedback should be constructive and forward-looking, and linked to the criteria that were used for marking. Be realistic about how much time it takes to provide good feedback. For example, you may need to reduce word counts so you’ve got enough time to provide individual feedback, make more use of group feedback, or introduce peer feedback or automated marking.

Use the Getting ready for AY21-22 assessment overview to identify the assessment and feedback resources most useful to you.

3 Plan the learner journey.
Courses need to be designed to help students navigate their learning. Direct the students’ journey through the course, making clear where activities are mandatory or optional, where they cover core knowledge or skills or extend these, and what needs to be done and when. For example, if students are watching a video, provide direction on what they should be thinking about whilst watching. This helps the student to make sense of the activity and ensures that they are actively engaged rather than passively consuming content.

Chunking learning (breaking it into smaller pieces) can support this journey by encouraging students to take breaks, leaving them time to process their learning and also supporting their wellbeing (Miller, 1956; Simon, 1974). Plan contact time to support the learner journey e.g. scheduling office hours or activities so that they support and consolidate learning. This includes not just live sessions but also engaging in discussion activities; responding to individual student contact and engaging in feedback conversations around assessment.

4 Plan the learning activities and content.
Plan any live sessions such as labs, studios, tutorials, seminars or lectures as well as the asynchronous activities which students undertake in their own time e.g. reading, viewing, listening to media; participating in discussions, quizzes, group projects, independent research.

• Ensure the activities support the overall learning outcomes. This may be by providing a building block towards the course learning outcomes, or it may be directly enabling them to demonstrate the learning outcome.

• Scaffold the activities. Designing the activities so that students develop knowledge, understanding and skills incrementally is called ‘scaffolding’ (Vygotsky, 1978). This approach enables students to develop greater independence and understanding through their learning journey, ultimately being able to complete the activity unaided.

• Provide active learning. Engaging students in active learning – for example, discussing, sharing and making rather than just reading or watching – supports them to develop higher order thinking skills. (See ‘Embedding Active Learning in your Teaching Practice’ for further guidance on active learning)

• Choose the tools / modes / approaches which are most effective for the activity. For example, does the activity work better synchronously or asynchronously; on-campus,
online or blended; what tools or approaches will support it. For example—a discussion topic might be approached as an in-class verbal discussion online or on-campus; or an asynchronous discussion board activity, editing a shared document or wiki; or other form of discussion.

- **Plan / Review the timing.** Ensure that the timing of the activities supports the student to develop their knowledge and skills incrementally and to prepare for the assessments. For example, if an assessment requires students to write an essay or report, ensure that they have activities prior to the assessment which support them to develop writing skills; if the assessment requires them to apply a formula to a problem ensure that they have had practice doing so; if they will have to provide a presentation then provide opportunities to develop presentation skills.

5  **Review the volume of work.**  
It is important to ensure that the volume of work each week is appropriate and balanced (Whitelock et al., 2015). Consider not just the live contact time but the time needed to complete any directed activities or assessments and also time for independent study.

6  **Keep the course under review and respond to feedback.**  
A course is not static. Keeping it under review and revising and responding to feedback during the course can help to ensure that students are engaged and that the course supports them to achieve the learning outcomes.

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**References**


Whitelock, Denise; Thorpe, Mary and Galley, Rebecca (2015). *Student workload: a case study of its significance, evaluation and management at the Open University*. Distance Education, 36(2) pp. 161–176.
Further reading

https://www.celt.iastate.edu/teaching/effective-teaching-practices/revised-blooms-taxonomy/


Notes