

TABLE 1**Course descriptions and assessment methods.**

Course name	Course number	Total enrollment	Student population	Question pool delivery	Open notes
Upper-Level Physiology	BIOL 305, 307	90	Biology majors	SQB	No
General Chemistry I and II	CHEM 101, 102	200–720	STEM majors	GQ	Yes
Introductory Physics II	PHYS 122	260	STEM majors	GQB	Yes

Note. GQ = groups of questions visible, no backtracking between groupings; GQB = groups of questions delivered singly, backtracking within groups; SQB = single question, backtracking allowed.

TABLE 2**Example of instructors' processes for formulating comparable exam questions in pools.**

Difficulty level	Description	Estimated time (min.)	Requires calculation
Easy	Simple concept or calculation that does not require much if any application	1	Yes/No
Medium	Application required; similar to many versions seen; calculation not lengthy	2–4	Yes/No
Difficult	Deeper application/analysis required; longer calculation	5+	Yes/No