Figure 5
Examples of Direct and Indirect Measures of Student Learning (Course, Program, and Institutional Levels)

	Direct Measures	Indirect Measures
Course	★ Course and homework assignments	★ Course evaluations
	★ Examinations and quizzes	★ Test blueprints (outlines of the concepts and
	★ Standardized tests	skills covered on tests)
	★ Term papers and reports	* Percent of class time spent in active learning
	★ Observations of field work, internship performance, service learning, or clinical	★ Number of student hours spent on service learning
	experiences	★ Number of student hours spent on homework
	★ Research projects	* Number of student hours spent at intellectual of
	★ Class discussion participation	
	★ Case study analysis	★ Grades that are not based on explicit criteria related to clear learning goals
	★ Rubric (a criterion-based rating scale) scores for writing, oral presentations, and performances	
	* Artistic performances and products	
	★ Grades that are based on explicit criteria related to clear learning goals	
Program	 ★ Capstone projects, senior theses, exhibits, or performances ★ Pass rates or scores on licensure, certification, 	 ★ Focus group interviews with students, faculty members, or employers ★ Registration or course enrollment information
	or subject area tests	★ Department or program review data
	★ Student publications or conference presentations	★ Job placement
	* Employer and internship supervisor ratings of students' performance	★ Employer or alumni surveys
		★ Student perception surveys
		★ Proportion of upper-level courses compared to the same program at other institutions
		★ Graduate school placement rates
Institutional	 ★ Performance on tests of writing, critical thinking, or general knowledge ★ Rubric (criterion-based rating scale) scores for class assignments in General Education, interdisciplinary core courses, or other courses required of all students 	Locally-developed, commercial, or national surveys of student perceptions or self-report of activities (e.g., National Survey of Student Engagement) Transcript studies that examine patterns and trends of course selection and grading
	★ Performance on achievement tests	* Annual reports including institutional
	* Explicit self-reflections on what students have learned related to institutional programs such as service learning (e.g., asking students to name the three most important things they have learned in a program).	benchmarks, such as graduation and retention rates, grade point averages of graduates, etc.