

Table 1.
Disciplinary Areas by Biglan Categories

	Hard	Soft
Pure- Life	Biology (general) Biochemistry or biophysics Botany Environmental science Microbiology or bacteriology Zoology Kinesiology	Anthropology Ethnic studies Political science (incl. gov't, int'l rel.) Psychology Sociology
Pure- Non-Life	Astronomy Atmospheric science (incl. meteorology) Chemistry Earth science (incl. geology) Mathematics Physics Statistics	Art, fine and applied English (language and literature) History Language and literature (except English) Music Philosophy Theater or drama Geography
Applied- Life	Medicine Dentistry Veterinarian Pharmacy Agriculture Speech	Theology or religion Business education Elementary/middle school education Music or art education Physical education or recreation Nursing Allied health/other medical Social work Family Studies Criminal justice
Applied- Non-Life	Aero-/aeronautical engineering Civil engineering Chemical engineering Electrical or electronic engineering Industrial engineering Materials engineering Mechanical engineering General/other engineering	Journalism Accounting Business administration (general) Finance Marketing Management Architecture Urban planning Economics Communications Public administration

Note: Categorization based on Biglan (1973a,b), Malaney (1986), and Stoecker (1993)
Source: Nelson Laird, Shoup, Kuh & Schwarz (2008)

Table 2.
Number of Faculty Respondents

Disciplinary Area	Faculty teaching a GEC	Faculty teaching a non-GEC	Total
Hard-Pure-Life	274	362	636
Hard-Pure-Non-Life	660	415	1,075
Hard-Applied-Life	60	85	145
Hard-Applied-Non-Life	122	219	341
Soft-Pure-Life	552	490	1,042
Soft-Pure-Non-Life	1,503	941	2,444
Soft-Applied-Life	344	674	1,018
Soft-Applied-Non-Life	493	866	1,359
Total	4,008	4,052	8,060

Table 3.

Emphasis on Intellectual Skills Estimated Means by Disciplinary Area and GEC Status

Disciplinary Area	Faculty teaching a GEC	Faculty teaching a non-GEC	GEC - Non-GEC Mean Difference
Soft-Pure-Non-Life	0.43	0.24	0.19
Hard-Applied-Life	0.42	-0.55	0.97
Soft-Applied-Life	0.10	0.10	0.00
Soft-Applied-Non-Life	0.07	-0.10	0.17
Soft-Pure-Life	0.04	-0.03	0.07
Hard-Applied-Non-Life	-0.38	-0.50	0.12
Hard-Pure-Non-Life	-0.41	-0.49	0.08
Hard-Pure-Life	-0.57	-0.42	-0.15
Total	0.05	-0.06	0.12

Note: Means estimated based on a regression model that controlled for faculty and course characteristics. The emphasis on deep approaches to learning measure was standardized prior to analysis.

Table 4.

Emphasis on Practical Skills Estimated Means by Disciplinary Area and GEC Status

Disciplinary Area	Faculty teaching a GEC	Faculty teaching a non-GEC	GEC - Non-GEC Mean Difference
Hard-Applied-Non-Life	0.68	0.72	-0.05
Soft-Applied-Non-Life	0.35	0.34	0.01
Hard-Applied-Life	0.20	0.26	-0.06
Hard-Pure-Non-Life	0.09	-0.04	0.13
Soft-Applied-Life	0.06	0.48	-0.42
Hard-Pure-Life	-0.21	0.05	-0.25
Soft-Pure-Non-Life	-0.33	-0.31	-0.02
Soft-Pure-Life	-0.33	-0.35	0.02
Total	-0.05	0.02	-0.06

Note: Means estimated based on a regression model that controlled for faculty and course characteristics. The emphasis on deep approaches to learning measure was standardized prior to analysis.

Table 5.
Emphasis on Personal and Social Responsibility Estimated Means by Disciplinary Area and GEC Status

Disciplinary Area	Faculty teaching a GEC	Faculty teaching a non-GEC	GEC - Non-GEC Mean Difference
Soft-Applied-Life	0.83	0.54	0.29
Soft-Pure-Non-Life	0.40	0.16	0.23
Soft-Pure-Life	0.29	0.05	0.24
Hard-Applied-Life	0.19	-0.46	0.65
Soft-Applied-Non-Life	0.04	-0.22	0.26
Hard-Pure-Life	-0.38	-0.67	0.29
Hard-Applied-Non-Life	-0.49	-0.77	0.29
Hard-Pure-Non-Life	-0.77	-0.92	0.15
Total	0.13	-0.12	0.25

Note: Means estimated based on a regression model that controlled for faculty and course characteristics. The emphasis on deep approaches to learning measure was standardized prior to analysis.

Table 6.
Deep Approaches to Learning Estimated Means by Disciplinary Area and GEC Status

Disciplinary Area	Faculty teaching a GEC	Faculty teaching a non-GEC	GEC - Non-GEC Mean Difference
Hard-Applied-Life	0.35	-0.50	0.85
Soft-Applied-Life	0.33	0.28	0.05
Soft-Pure-Non-Life	0.32	0.19	0.14
Soft-Pure-Life	0.30	0.15	0.15
Soft-Applied-Non-Life	0.14	-0.08	0.22
Hard-Pure-Life	-0.37	-0.42	0.05
Hard-Applied-Non-Life	-0.42	-0.58	0.16
Hard-Pure-Non-Life	-0.71	-0.79	0.08
Total	0.07	-0.07	0.14

Note: Means estimated based on a regression model that controlled for faculty and course characteristics. The emphasis on deep approaches to learning measure was standardized prior to analysis.