

Do diligent students perform better? Complex relations between student and course characteristics, study time, and academic performance in higher education

Supplementary material

MASUI, Chris; BROECKMANS, Jan; DOUMEN, Sarah; GROENEN, Anne & MOLENBERGHS, Geert (2014) Do diligent students perform better? Complex relations between student and course characteristics, study time, and academic performance in higher education. In: STUDIES IN HIGHER EDUCATION, 39 (4), p. 621-643.

DOI: 10.1080/03075079.2012.721350

Handle: <http://hdl.handle.net/1942/13747>

DO DILIGENT STUDENTS PERFORM BETTER?

Table 2
Relationships between Student Characteristics, Study Time, and Course Grade

Term	Course Grade	β / t Sign.	Student Characteristics							Model Statistics				
			Study time	Gender (0 = M, 1 = F)	Prior study delay	Prior knowledge economics (0 = no, 1 = yes)	Prior knowledge mathe- matics	Intelligence	Reading skills	R^2	Adj. R^2	df		
1	Financial Accounting 1	.212 .066	1.873		-.246 -2.066 .044		.382 3.224 .002				R^2 .319 F 8.420	Adj. R^2 .281 Sign. .000	df 3/54	
	Global Economics & Economic History	.275 .023	2.350	-.306 -2.630 .011	-.289 -2.462 .017	-.250 -2.147 .036					R^2 .292 F 5.472	Adj. R^2 .239 Sign. .001	df 4/53	
	Macro-economics 1	.383 .002	3.183					.243 2.016 .049				R^2 .203 F 6.997	Adj. R^2 .174 Sign. .002	df 2/55
	Mathematics 1	.278 .006	2.866			-.295 -2.949 .005	.486 4.919 .000	.170 1.681 .099				R^2 .520 F 14.066	Adj. R^2 .483 Sign. .000	df 4/52
	Sociology & Demography	.397 .000	3.721			-.324 -3.029 .004	.210 1.934 .058		.346 3.200 .002			R^2 .417 F 9.487	Adj. R^2 .373 Sign. .000	df 4/53
2	Macro-economics 2	.314 .038	2.144				.314 2.144 .038					R^2 .099 F 4.595	Adj. R^2 .077 Sign. .038	df 1/42
	Management & Management Accounting	.332 .022	2.370				.332 2.370 .022	.301 2.154 .037				R^2 .267 F 7.641	Adj. R^2 .232 Sign. .003	df 2/42
	Mathematics 2	-.355 -2.760 .009				.412 3.196 .003			-.286 -2.218 .032			R^2 .356 F 7.201	Adj. R^2 .307 Sign. .001	df 3/39
	Research Methods & Psychology 1	.343 .010	2.707		-.216 -1.706 .096		.429 3.430 .001					R^2 .377 F 8.061	Adj. R^2 .330 Sign. .000	df 3/40
3	Financial Accounting 2	.320 2.48727 .01616				.300 2.366 .022		.335 2.607 .012				R^2 .257 F 5.537	Adj. R^2 .211 Sign. .002	df 3/48
	Management Information Systems	-.280 -2.217 .031		.227 1.971 .055			.450 3.609 .001					R^2 .439 F 12.534	Adj. R^2 .404 Sign. .000	df 3/48
	Principles of Law	.329 .008	2.752		-.432 -3.609 .001							R^2 .298 F 10.387	Adj. R^2 .269 Sign. .000	df 2/49
	Research Methods & Psychology 2	.540 .000	4.652		-.212 -1.831 .073							R^2 .361 F 13.585	Adj. R^2 .335 Sign. .000	df 2/48
	Statistics	.519 .000	4.704					.395 3.408 .001	-.266 -2.278 .027			R^2 .430 F 12.052	Adj. R^2 .394 Sign. .000	df 3/48

Note. Results are presented only for variables that appear in the selected regression model. Tolerance and variance inflation factor are within the acceptable range for all analyses, indicating that there are no multicollinearity problems.