

## Supplementary Information

**Supplementary Table 1**

Department Name	STEM	Department Name	STEM
Actuarial Science	1	History	0
American Studies	0	Interdisciplinary Studies	0
Anthropology	0	Italian	0
Applied Mathematics	1	Japanese	0
Arts and Humanities	0	Kinesiology	0
Astronomy	1	Mathematics	1
Biology	1	Medieval Studies	0
Business Administration	0	Media, Information and Technoculture	0
Calculus	1	Management and Organizational Studies	0
Centre for Global Studies	0	Music	0
Chemistry	1	Philosophy	0
Chinese	0	Physics	1
Classical Studies	0	Physiology	1
Comparative Literature and Culture	0	Political Science	0
Computer Science	1	Portuguese	0
Digital Humanities	0	Psychology	0
Dimensions of Leadership	0	Religious Studies	0
Earth Sciences	1	Russian	0
Economics	0	Scholars Electives	0
English	0	Sociology	0
Engineering Science	1	Social Justices and Peace Studies	0
Environmental Science	1	Social Work	0
Family Studies and Human Development	0	Spanish	0
Film Studies	0	Speech	0
Financial Modeling	1	Statistical Sciences	1
Foods and Nutrition	0	Visual Arts History	0
French	0	Visual Arts Studio	0
Geography	0	Women's Studies	0
German	0	Writing	0
Health Sciences	0		

Note: The list of academic departments in which participating students took courses. Each department was classified as either STEM (1) or non-STEM (0). For details on this classification, see the Methods section.

**Supplementary Table 2**

Measure	Mean (SE)	% STEM Courses					Verbal Working Memory		non-STEM Grades	
		STEM Courses	STEM Grades	Math Anxiety	Math Ability	Trait Anxiety	Gender	Gender	Grades	
% STEM Courses	.48 (.02)	-								
STEM Grades	77.81 (.79)	.12	-							
Math Anxiety	30.62 (1.52)	-.39***	-.32***	-						
Math Ability	51.1 (1.82)	.24***	.28***	-.35***	-					
Trait Anxiety	40.84 (.79)	-.13	-.10	.43***	.03	-				
Verbal Working Memory	46.27 (1.16)	.01	.06	-.07	.17*	-.07	-			
Gender	.64 (.04)	-.08	-.04	.37***	-.13	.32***	-.09	-		
non-STEM Grades	79.16 (.66)	.34***	.71***	-.29***	.22**	-.20**	.02	-.02	-	
Semesters Absent	.51 (.08)	.33***	-.18*	-.05	-.08	-.02	-.05	.08	-.08	

Note: Descriptive statistics and zero-order correlations for all variables are shown.  $N = 183$ . \*  $p \leq .05$ , \*\*  $p \leq .01$ , \*\*\*  $p \leq .001$

**Supplementary Table 3**

DV: % STEM Courses	B	SE	t	p	d
Math Anxiety	-.111	.027	-4.17	5E-5	-.635
Non-STEM Grades	.044	.023	1.93	.055	.293
Math Ability	-.100	.031	-3.26	.001	-.495
STEM Grades	.028	.024	1.17	.245	.177
Trait Anxiety	-.005	.021	-.24	.807	-.037
Verbal Working Memory	.001	.047	.02	.988	.002
Gender	.160	.030	5.31	3E-7	.808
Semesters Absent	.103	.021	4.95	2E-6	.753
Math Anxiety x non-STEM Grades	-.008	.021	-4.40	.000	-.061

Note: All predictors are standardized and % STEM Courses is in its native units. The B estimate can therefore be interpreted as the change in % STEM Courses associated with a one standard deviation of the predictor.  $d$  refers to Cohen's  $d$  measure of effect size.  $df = 173$ . Adjusted  $R^2 = .343$ .

### Supplementary Table 4

DV: STEM Grades	B	SE	t	p	d
Math Anxiety	-2.743	.692	-3.96	1E-4	-.603
Non-STEM Grades	.984	.590	1.67	.097	.253
Math Ability	-2.080	.639	-3.26	.001	-.495
% STEM Courses	1.374	.618	2.22	.028	.338
Trait Anxiety	.064	.534	.12	.905	.018
Verbal Working Memory	.440	1.207	.36	.716	.055
Gender	7.817	.593	13.19	< 2E-16	2.00
Semesters Absent	-.630	.573	-1.10	.273	-.167
Math Anxiety x non-STEM Grades	-1.503	.519	-2.90	.004	-.441

Note: All predictors are standardized and STEM Grades is in its native units. The B estimate can therefore be interpreted as the change in STEM Grades associated with a one standard deviation of the predictor. *d* refers to Cohen's *d* measure of effect size. *df* = 173. Adjusted  $R^2$  = .571.

### Supplementary Table 5

DV: % STEM Courses	B	SE	t	p	d
Math Anxiety	-.188	.051	-3.67	3E-4	-.558
Math Ability	.046	.023	2.02	.045	.307
STEM Grades	-.103	.030	-3.46	.001	-.527
Trait Anxiety	.031	.024	1.31	.192	.199
Verbal Working Memory	-.011	.021	-.55	.582	-.084
Gender	.030	.049	.62	.535	.095
non-STEM Grades	.162	.029	5.58	9E-8	.849
Semesters Absent	.108	.021	5.19	6E-7	.789
Math Anxiety x Gender	.099	.055	1.79	.075	.272

Note: All predictors are standardized and % STEM Courses is in its native units. The B estimate can therefore be interpreted as the change in % STEM Courses associated with a one standard deviation of the predictor. *d* refers to Cohen's *d* measure of effect size. *df* = 173. Adjusted  $R^2$  = .355.

**Supplementary Table 6**

<b>DV: STEM Grades</b>	<b>B</b>	<b>SE</b>	<b>t</b>	<b>p</b>	<b>d</b>
Math Anxiety	-4.71	1.361	-3.46	6E-4	-.527
Math Ability	.988	.598	1.65	.100	.251
% STEM Courses	-2.25	.650	-3.46	.001	-.527
Trait Anxiety	1.206	.621	1.94	.054	.295
Verbal Working Memory	.023	.549	.04	.967	.006
Gender	1.457	1.290	1.13	.260	.172
non-STEM Grades	7.640	.595	12.83	< 2E-16	1.951
Semesters Absent	-.430	.589	-.73	.466	-.111
Math Anxiety x Gender	2.856	1.452	1.97	.051	.299

Note: All predictors are standardized and STEM Grades is in its native units. The B estimate can therefore be interpreted as the change in STEM Grades associated with a one standard deviation of the predictor. *d* refers to Cohen's *d* measure of effect size.  $df = 173$ . Adjusted  $R^2 = .561$ .