### Table S4. Multivariate analysis of covariance results for the combined dependent variables achievement motivation (probability of success), achievement motivation (probability of failure), and study-related flow.

| Covariates     | Motivation (Success) | Motivation (Failure) | Study-related flow |
|----------------|----------------------|----------------------|-------------------|
|                | $V$ $F(3, 778)$ $P$ $\eta^2$ | $F(1, 780)$ $P$ $\eta^2$ | $F(1, 780)$ $P$ $\eta^2$ | $F(1, 780)$ $P$ $\eta^2$ |
| Gender         | 0.006 1.51 .21 .006 | 0.070 .79 <.001 | 4.14 .04 .005 | 0.040 .08 <.001 |
| Age            | 0.001 0.25 .86 .001 | 0.34 .56 <.001 | 0.11 .74 <.001 | 0.002 .97 <.001 |
| Semester       | 0.015 3.92 .009 .015 | 2.11 .15 .003 | 6.99 .008 .009 | 1.17 .28 .001 |
| Exam count     | 0.017 4.55 .004 .017 | 6.29 .01 .008 | 0.011 .92 <.001 | 2.28 .13 .003 |
| Fixed factors  | $V$ $F(6,1558)$ $P$ $\eta^2$ | $F(2,780)$ $P$ $\eta^2$ | $F(2,780)$ $P$ $\eta^2$ | $F(2,780)$ $P$ $\eta^2$ |
| Cohort         | 0.017 2.21 .04 .008 | 0.83 .44 .002 | 1.38 .25 .004 | 5.45 .004 .014 |