SUPPLEMENTAL INFORMATION
SUPPLEMENTAL TABLE S1

*In each class section, descriptive statistics for in-class proportion of task-unrelated thoughts, separately for the first and second classroom visits*

| Class Visits | Class Sections | n  | Mean | SD  | Min | Max | Skewness (SE) | Kurtosis (SE) |
|--------------|----------------|----|------|-----|-----|-----|---------------|---------------|
| **First Visit** |                |    |      |     |     |     |               |               |
| 1 UA INTRO   |                | 113| 0.30 | 0.22| 0.00| 1.00| 0.86 (0.23)   | 1.26 (0.45)   |
| 2 UA INTRO   |                | 201| 0.20 | 0.17| 0.00| 0.67| 0.38 (0.17)   | -0.70 (0.34)  |
| 3 UA STATS   |                |  57| 0.26 | 0.21| 0.00| 0.88| 0.71 (0.32)   | 0.29 (0.62)   |
| 4 UA STATS   |                |  58| 0.18 | 0.15| 0.00| 0.67| 0.86 (0.31)   | 0.86 (0.62)   |
| 5 UB INTRO   |                |  81| 0.20 | 0.17| 0.00| 0.67| 0.39 (0.27)   | -0.60 (0.53)  |
| 6 UB INTRO   |                |  63| 0.24 | 0.19| 0.00| 0.78| 0.85 (0.30)   | 0.55 (0.59)   |
| 7 UB INTRO   |                |  33| 0.32 | 0.19| 0.00| 0.78| 0.15 (0.41)   | -0.14 (0.80)  |
| 8 UB INTRO   |                |  55| 0.22 | 0.19| 0.00| 0.67| 0.57 (0.32)   | -0.64 (0.63)  |
| 9 UB INTRO   |                |  59| 0.24 | 0.20| 0.00| 0.78| 0.79 (0.31)   | 0.05 (0.61)   |
| 10 UB STATS  |                |  71| 0.21 | 0.21| 0.00| 1.00| 1.32 (0.28)   | 2.60 (0.56)   |

*(Supplemental Table S1 continues below)*
### SUPPLEMENTAL TABLE S1. (continued)

| Class Visits | Class Sections | n  | Mean | SD  | Min | Max  | Skewness (SE) | Kurtosis (SE) |
|--------------|----------------|----|------|-----|-----|------|---------------|---------------|
| Second Visit |                |    |      |     |     |      |               |               |
| 1 UA INTRO   |                | 113| 0.29 | 0.25| 0.00| 1.00 | 0.95 (0.23)   | 0.51 (0.45)   |
| 2 UA INTRO   |                | 208| 0.24 | 0.21| 0.00| 0.83 | 0.68 (0.17)   | -0.23 (0.34)  |
| 3 UA STATS   |                | 59 | 0.20 | 0.21| 0.00| 0.83 | 1.43 (0.31)   | 2.22 (0.61)   |
| 4 UA STATS   |                | 55 | 0.16 | 0.16| 0.00| 0.67 | 0.92 (0.32)   | 0.70 (0.63)   |
| 5 UB INTRO   |                | 77 | 0.21 | 0.18| 0.00| 1.00 | 1.36 (0.27)   | 4.10 (0.54)   |
| 6 UB INTRO   |                | 66 | 0.27 | 0.21| 0.00| 0.89 | 0.87 (0.30)   | 0.62 (0.58)   |
| 7 UB INTRO   |                | 34 | 0.29 | 0.21| 0.00| 1.00 | 1.11 (0.40)   | 2.67 (0.79)   |
| 8 UB INTRO   |                | 50 | 0.27 | 0.25| 0.00| 1.00 | 1.01 (0.34)   | 0.66 (0.66)   |
| 9 UB INTRO   |                | 58 | 0.27 | 0.23| 0.00| 0.78 | 0.65 (0.31)   | -0.56 (0.62)  |
| 10 UB STATS  |                | 72 | 0.23 | 0.21| 0.00| 0.78 | 0.86 (0.28)   | 0.14 (0.56)   |
SUPPLEMENTAL TABLE S2

Mean (standard deviation in parentheses) scores and ANOVA results for each academic predictor measure for students seated in the front, middle, versus back third of classroom rows, for each of the two probed class meetings.

| Outcome                     | Front Third | Middle Third | Back Third | ANOVA Results |
|-----------------------------|-------------|--------------|------------|---------------|
| Note Taking Skill           | 3.55 (0.50) | 3.46 (0.46)  | 3.49 (0.48)| $F= 2.02, p=.133$ |
| Classroom Media Multitasking| 1.88 (0.75) | 2.06 (0.86)  | 2.83 (0.85)| $F=17.45, p < .001$ |
| Topic Interest and Value    | 3.85 (0.69) | 3.82 (0.67)  | 3.75 (0.71)| $F= 1.50, p = .223$ |
| Mastery Goals               | 3.97 (0.65) | 3.92 (0.65)  | 3.84 (0.63)| $F= 2.78, p = .063$ |
| Course Self-Efficacy        | 3.89 (0.53) | 3.85 (0.53)  | 3.86 (0.54)| $F= 0.55, p = .579$ |
| Test Anxiety                | 3.29 (1.09) | 3.35 (1.05)  | 3.44 (1.07)| $F= 1.35, p = .260$ |
| Mind-Wandering & Boredom    | 3.04 (0.47) | 3.08 (0.46)  | 3.12 (0.46)| $F= 1.81, p = .165$ |
| Multitasking Beliefs        | 2.88 (0.48) | 2.84 (0.42)  | 2.93 (0.46)| $F= 2.47, p = .085$ |
| Performance Goals           | 4.07 (0.80) | 4.08 (0.73)  | 4.08 (0.72)| $F= 0.04, p = .963$ |

(Supplemental Table S2 continues below)
### SUPPLEMENTAL TABLE S2 (continued)

| Outcome                             | Front Third | Middle Third | Back Third | ANOVA Results |
|-------------------------------------|-------------|--------------|------------|---------------|
| (n = 271)                           | (n = 240)   | (n = 275)    | df(2,783)  |               |
| Note Taking Skill                   | 3.53 (0.50) | 3.45 (0.46)  | 3.52 (0.44) | $F = 1.63, p = .196$ |
| Classroom Media Multitasking        | 1.87 (0.75) | 2.14 (0.85)  | 2.25 (0.84) | $F = 15.59, p < .001$ |
| Topic Interest and Value            | 3.82 (0.70) | 3.79 (0.72)  | 3.79 (0.66) | $F = 0.21, p = .814$ |
| Mastery Goals                       | 3.92 (0.62) | 3.93 (0.64)  | 3.88 (0.65) | $F = 0.47, p = .625$ |
| Course Self-Efficacy                | 3.90 (0.53) | 3.83 (0.53)  | 3.88 (0.53) | $F = 1.01, p = .364$ |
| Test Anxiety                        | 3.23 (1.12) | 3.39 (1.04)  | 3.40 (1.04) | $F = 2.28, p = .103$ |
| Mind-Wandering & Boredom            | 3.04 (0.45) | 3.10 (0.46)  | 3.09 (0.45) | $F = 1.35, p = .261$ |
| Multitasking Beliefs                | 2.86 (0.48) | 2.84 (0.44)  | 2.93 (0.43) | $F = 3.34, p = .036$ |
| Performance Goals                   | 4.11 (0.75) | 4.03 (0.80)  | 4.07 (0.70) | $F = 0.77, p = .462$ |

Note: Statistically significant results are presented in bolded type. df = degrees of freedom for analysis of variance (ANOVA).
SUPPLEMENTAL TABLE S3

*Multiple group analysis results (with groups corresponding to only the 7 sampled introductory psychology classrooms; total N = 654) for the three mediating or outcome variables: classroom TUT rate, final course grade, and end-of-semester situational interest.*

| Predictor                                | Classroom TUT rate B  | SE  | p    | Final Course Grade B  | SE  | p    | Situational Interest B  | SE  | p    |
|------------------------------------------|-----------------------|-----|------|-----------------------|-----|------|--------------------------|-----|------|
| Note-Taking Skill                        | -.029                 | .017| .086 | .145                  | .084| .083 | .093                     | .069| .180 |
| Classroom Media Multitasking             | .063                  | .009| <.001| -.127                 | .042| .002 | -.010                    | .031| .751 |
| Topic Interest and Value                 | -.042                 | .014| .002 | -.114                 | .061| .061 | .530                     | .051| <.001|
| Achievement Goals, Mastery               | .002                  | .011| .888 | .120                  | .056| .032 | .099                     | .041| .016 |
| Course Self-Efficacy                     | .025                  | .015| .100 | .105                  | .073| .148 | -.046                    | .059| .434 |
| Test Anxiety                             | .001                  | .008| .894 | -.138                 | .034| <.001| -.065                    | .025| .008 |
| Mind-Wandering & Boredom                 | .058                  | .017| <.001| .107                  | .082| .190 | .093                     | .061| .127 |
| Classroom TUT Rate                       | -.443                 | .189| .020 | -.911                 | .157| <.001|                          |     |      |

Note: Statistically significant coefficients are presented in bolded type. TUT = task-unrelated thought. B = unstandardized coefficient estimate; SE = standard error.
**SUPPLEMENTAL TABLE S4**

*Multiple group analysis results (with groups corresponding to only the 7 sampled introductory psychology classrooms; total N = 654) for testing the indirect effects for each predictor variable on each of the two outcome variables—final course grade and end-of-semester situational interest—with classroom TUT rate as the mediator variable.*

| Predictor                        | Final Course Grade |         |         |         |         |         |         |
|----------------------------------|--------------------|---------|---------|---------|---------|---------|---------|
|                                  | B    | SE    | p       | B     | SE    | p       |
| Note-Taking Skill                | .013 | .009  | .154    | .026  | .016  | .098    |
| Classroom Media Multitasking     | −.028 | .012 | .023 | −.057 | .012 | <.001  |
| Topic Interest and Value         | .019 | .010  | .068    | .039  | .014  | .005    |
| Achievement Goals, Mastery       | −.001 | .005 | .888    | −.001 | .010 | .888    |
| Course Self-Efficacy             | −.011 | .008 | .186    | −.023 | .014 | .109    |
| Test Anxiety                     | .000 | .003  | .894    | −.001 | .007 | .894    |
| Mind-Wandering & Boredom         | −.026 | .014 | .072    | −.053 | .019 | .004    |

Note: Statistically significant coefficients are presented in bolded type. TUT = task-unrelated thought. B = unstandardized coefficient estimate; SE = standard error.