Supplementary Materials

	Group	Exam % - Overall	n	Exam % (LC-OFF)	Exam % (LC-ON)
ALL STUDENTS	Non-Viewers	59.7 ± 1.3	110	60.4 ± 1.3	58.5 ± 1.5
	Viewers	64.6 ± 0.9	242	65.3 ± 1.0	64.0 ± 0.9
1st YEAR ONLY	Non-Viewers	60.1 ± 2.3	36	58.7 ± 2.5	60.3 ± 2.4
	Viewers	66.6 ± 2.5	30	62.7 ± 2.9	68.6 ± 2.4

Table S1. Enrollment-level exam percentages by viewer status for All students and 1st year only.

Values are mean ± SEM of enrollment-level exam percentages.

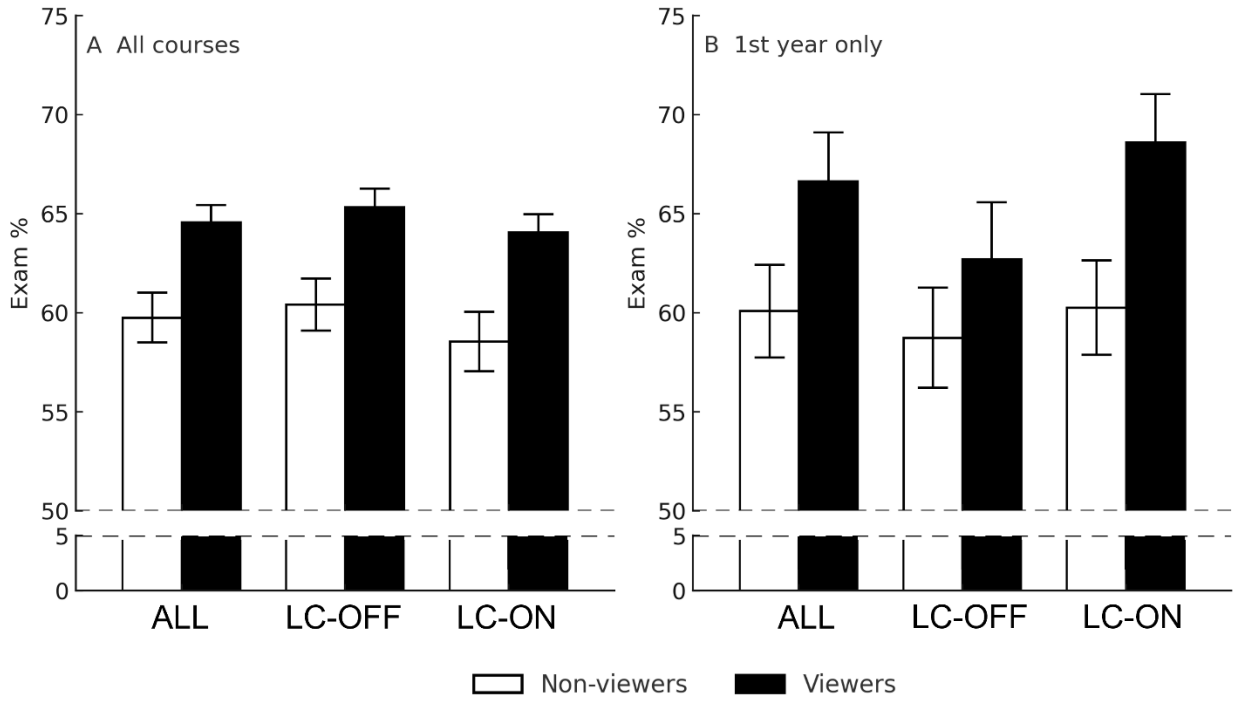

Figure S1. Enrollment-level exam percentages by viewer status for all courses (left) and 1st year only (right). Bars show mean exam % with ± SEM whiskers.

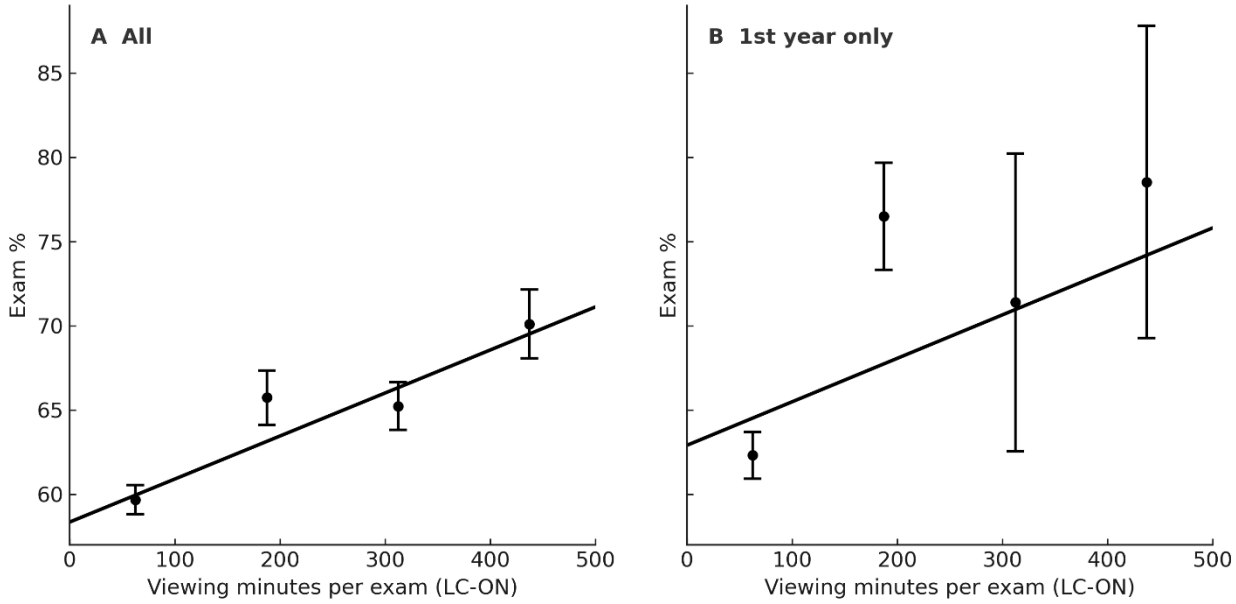

Figure S2. Dose–response of exam % to viewing minutes per exam with LC-ON. Solid line shows the adjusted prediction from a linear mixed-effects model (exam % ~ viewing hours + course + exam block + (1|student)). Points denote binned means (four approximately equal-count bins within 0–500 minutes) with ± SEM whiskers. Minutes reflect total viewing time across all LC recordings associated with that exam block. Analysis conditions on LC availability and observed viewing so is exploratory/associational.

Term	Coefficient (β)	SE	z	p	SD
Intercept	65.68	1.79	36.74	<0.0001	
LC-ON	-1.92	0.66	-2.92	0.0035	
Group Var (student)					12.5

Table S2. ITT mixed-effects model for exam % (intent-to-treat), all courses. Linear mixed-effects model with student random intercept. The Intercept is the predicted mean for the reference cell (Course 1, Block 1, LC-OFF). Due to 1st year data being from a single course, the mixed-effects specification yielded unstable standard errors.

Term	Coefficient (β)	SE	z	p	SD
Intercept	76.52	4.48	17.08	<0.0001	
LC-ON	-1.67	1.74	-0.96	0.337	
Group Var (student)	942.22				30.7

Table S3. Mixed-effects model for attendance (%) (intent-to-treat), all courses. Linear mixed-effects model with student random intercept. The Intercept is the predicted mean for the reference cell (Course 1, Block 1, LC-OFF: high early semester attendance). Due to 1st year data being from a single course, the mixed-effects specification yielded unstable standard errors.

Term	Beta (points)	SE	z	p
LC-ON	-3.52	1.01	-3.479	0.001
Attendance (%)	+1.88	1.37	1.376	0.169
LC-ON × Attendance	+3.07	0.43	2.152	0.031

Table S4. Moderation of LC availability by attendance (availability-based model) for all courses. Linear mixed-effects model with student random intercept and fixed effects for course and exam block; outcome is exam % (percentage points). When the model was run on the 1st year course only, none of the metrics were statistically significant.

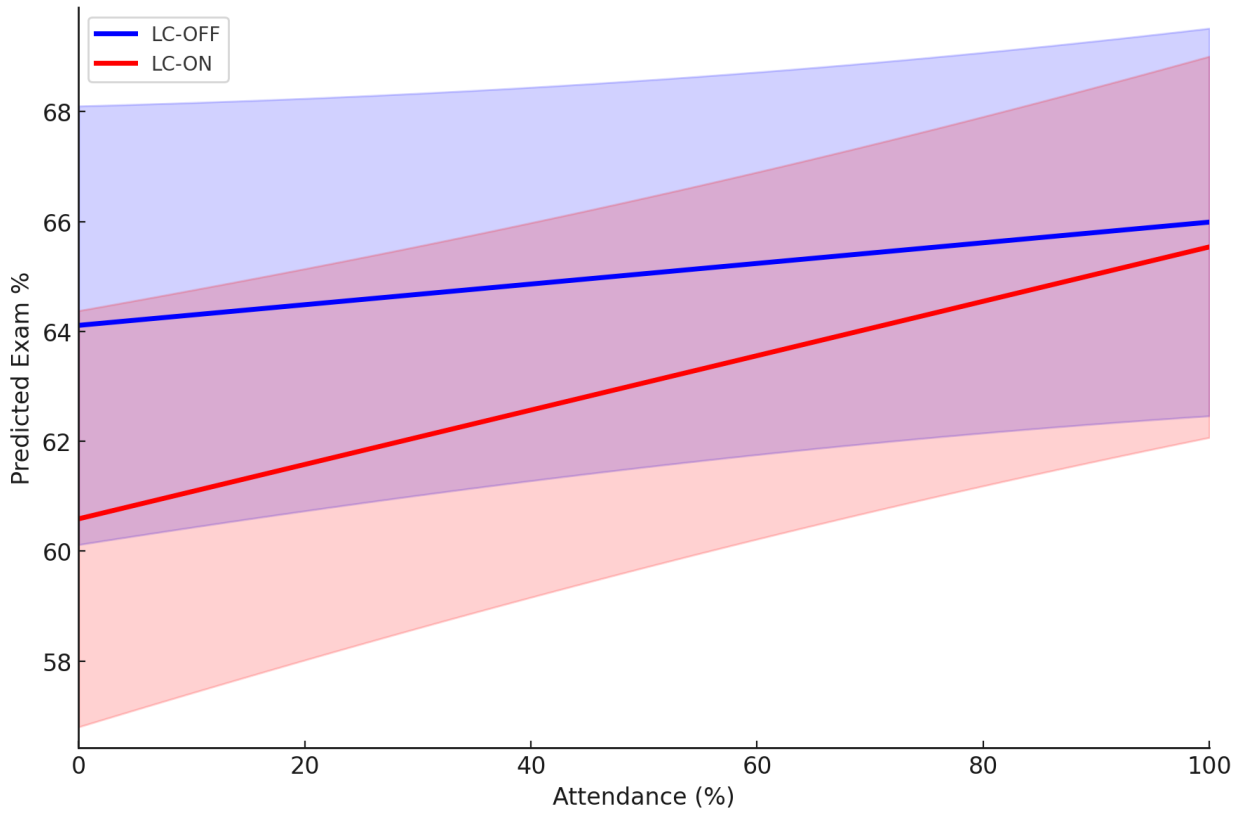

Figure S3 Predicted exam performance by attendance and lecture capture (LC) availability in all courses.

Predicted exam % (solid lines) with 95% confidence intervals (shaded bands) from a mixed-effects model of all courses (student random intercept; fixed effects for course and exam block).