

Hybridizing Economic Development: Moving Basic Modeling Online To Turn a 100 Student Lecture Course into an Intimate, Writing Intensive, 25 Student Course with Peer-to-Peer Interaction

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The Traditional Course in Economic Development

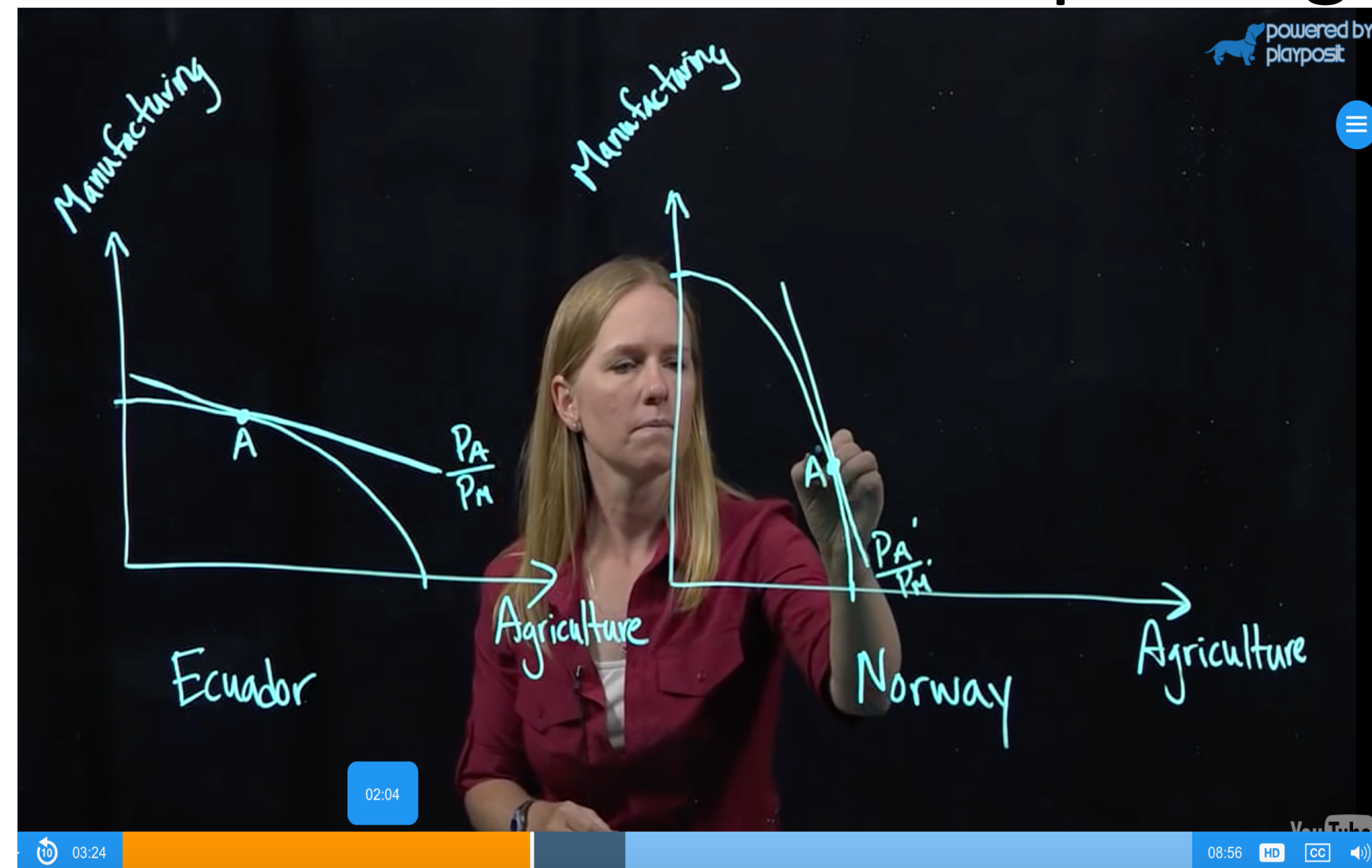
Failings of the two lecture 1.5hrs each, one discussion session 1 hr. model

Students came in with different backgrounds: some bored in lecture while others lost in lecture
Little peer to peer interaction: stared at instructor while she spoke
Exams required mostly memorization and some application of material to current events
Discussion section often wasted because material was just repeated/reviewed
Students did not write in the discipline



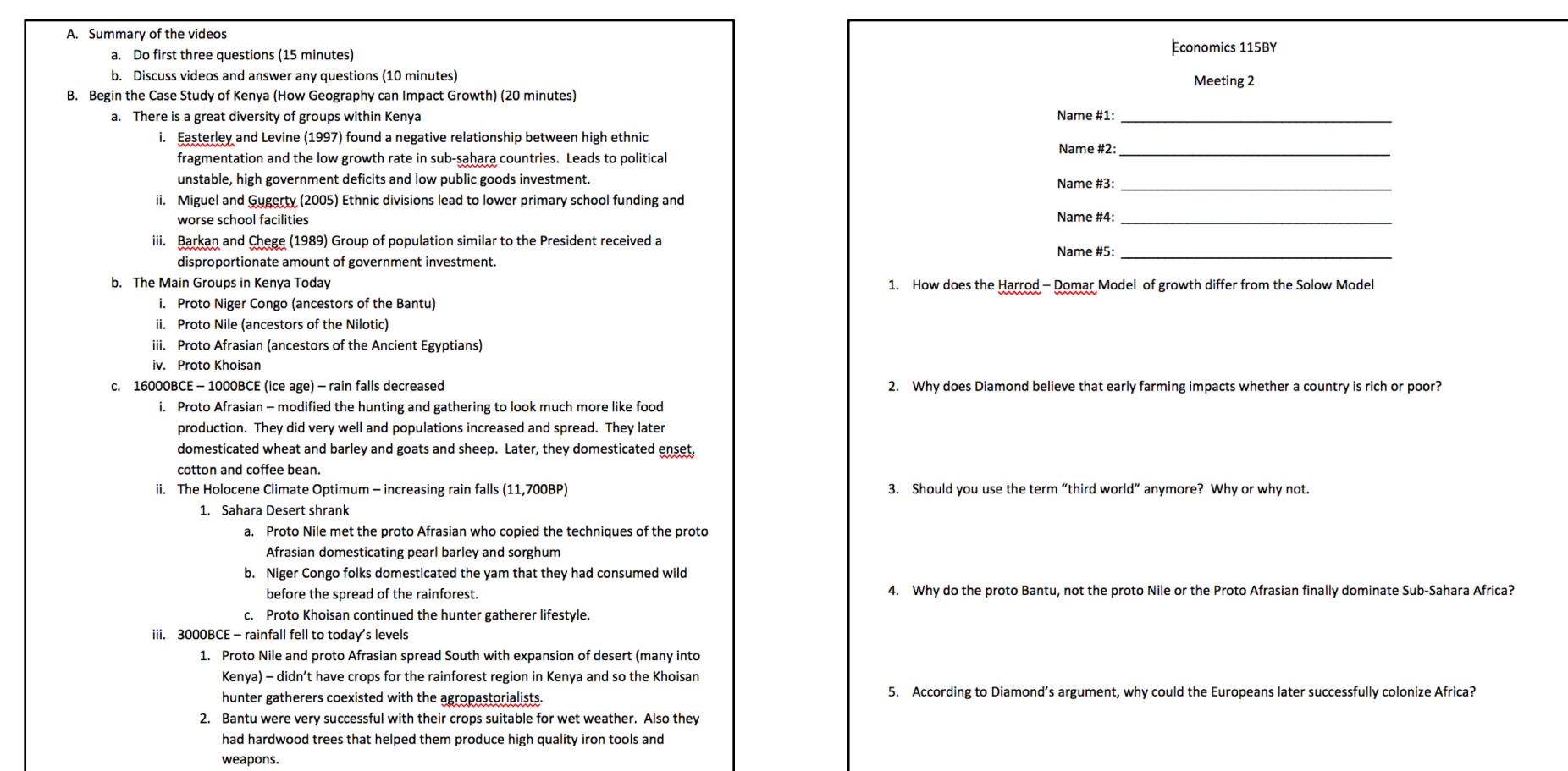
The Redesign of Economic Development

All Basic Modeling in Online Videos with embedded quizzing



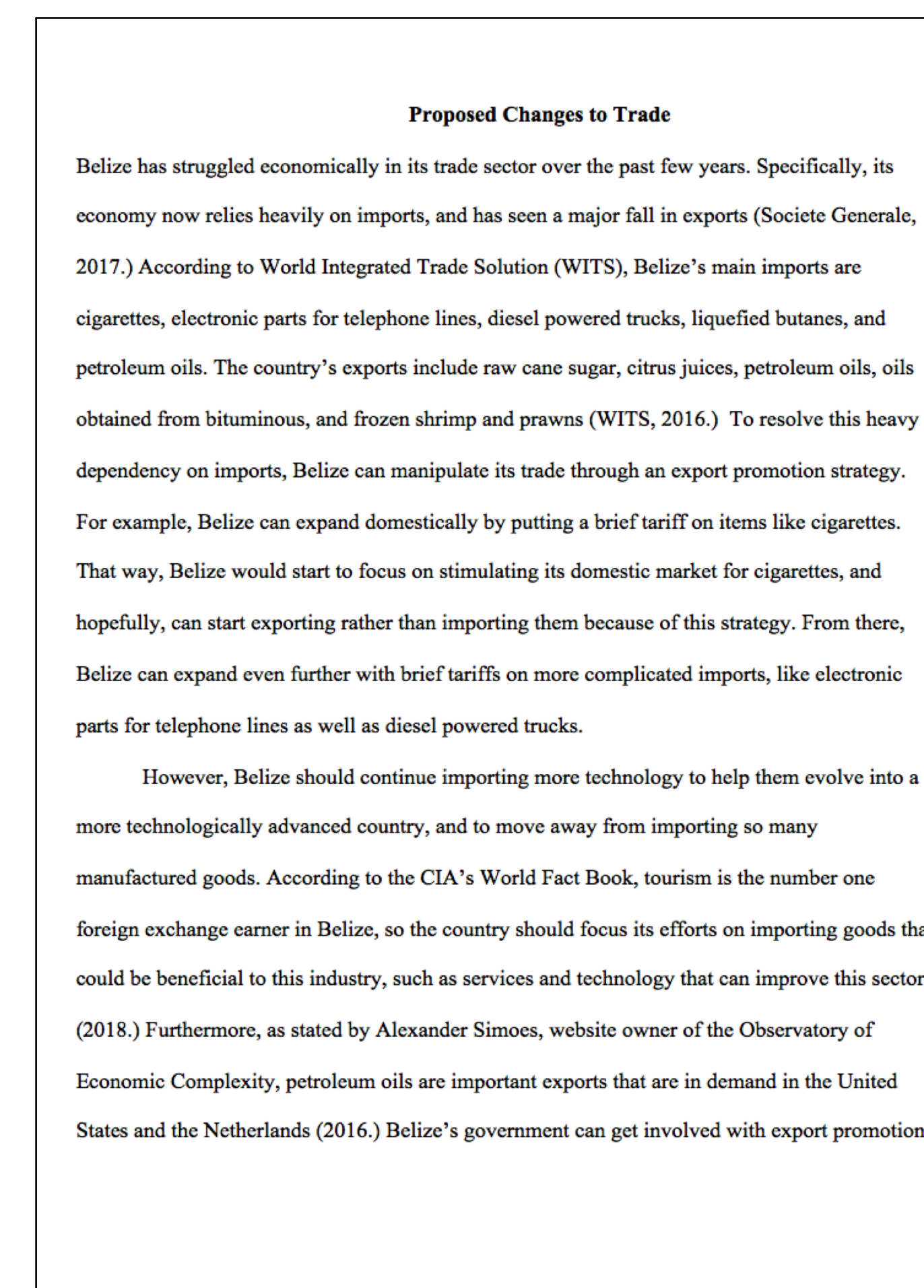
Weaker students could repeat videos
Stronger students could fast forward
Embedded quizzing kept students on track
Language learners had captioning

Application of models to developing country experience in one 1.5 hr., 25 student "lecture" per week run by Instructor and TA alternating weeks



Students learned to work in groups
They learned from each other
Students had a "small" class in their major
Instructors spent the same time/week teaching

Students apply the week's topic to a unique developing country assigned to them for the quarter in a single page



Students completed a 7-page country study
They learned to present in a safe, small group
Students became experts on a country
Up Bloom's Taxonomy to analyze, evaluate and create

Regression Estimates with Key Demographics						
Dependent Variable:	Midterm 1 Score	Midterm 2 Score	Final Exam Score			
Independent Variables:	Coefficients (Standard Errors)					
Intercept	82.02*** (0.97)	82.02*** (0.99)	76.24*** (1.01)	76.12*** (1.03)	77.40*** (0.91)	77.19*** (0.92)
Hybrid Course	1.00 (1.50)	0.37 (3.09)	2.96* (1.60)	3.59 (3.26)	12.31*** (1.54)	14.76*** (3.16)
URM	-0.96 (1.35)	-0.60 (1.42)	-0.58 (1.41)	0.21 (1.48)	0.08 (1.30)	0.58 (1.36)
English plus Another Language	-2.22* (1.19)	-2.23* (1.26)	-0.21 (1.24)	0.07 (1.31)	-1.52 (1.13)	-1.37 (1.18)
Non-English Only	-3.67*** (1.23)	-3.81*** (1.28)	-0.68 (1.27)	-0.77 (1.32)	-1.33 (1.17)	-1.03 (1.22)
First Generation	-3.12*** (0.97)	-3.13*** (0.97)	-1.47 (1.01)	-1.54 (1.01)	-3.75*** (0.93)	-3.81*** (0.93)
Transfer Student	-5.02*** (0.93)	-5.00*** (0.93)	-3.87*** (0.97)	-3.84*** (0.97)	-2.46*** (0.89)	-2.44*** (0.89)
International Student	-4.35*** (1.39)	-4.36 (1.40)	-3.58*** (1.44)	-3.59** (1.44)	-7.56*** (1.36)	-7.56*** (1.36)
Hybrid*URM	---	-3.91 (4.43)	---	-8.11* (4.69)	---	-5.18 (4.55)
Hybrid*English plus Another Language	---	0.80 (4.00)	---	-1.42 (4.23)	---	-1.50 (4.10)
Hybrid*Non-English Only	---	2.12 (3.86)	---	2.34 (4.10)	---	-3.06 (3.96)

Students performed as well or better on the exams and wrote a paper, worked in small groups and built rapport with their instructor and peers.

