

# Using Sports Coaching as a Cultural Reference to Help International Students Understand Flipped Classroom

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UCL Education Conference 2024



#### **Known Benefits of Active Learning**

#### **ACTIVE LEARNING**

INCREASED ACADEMIC PERFORMANCE

**INCREASED ENGAGEMENT** 

**INCLUSIVE PRACTICES** 

<sup>1)</sup> Freeman, S., and co-workers (2014). Active learning increases student performance in science, engineering, and mathematics. Proceedings of the National Academy of Sciences, 111(23), 8410-8415.
2) Gilboy, M. B. and co-workers (2015). Enhancing student engagement using the flipped classroom. Journal of Nutrition Education and Behavior, 47(1), 109-114.



## Student Resistance to Active Learning

#### **ACTIVE LEARNING**

#### STUDENT RESISTANCE

**INCREASED ACADEMIC PERFORMANCE** 

LACK OF UNDERSTANDING OF ACTIVE LEARNING

**INCREASED ENGAGEMENT** 

ADAPTED TO TRADITIONAL TEACHING (TEACHER-CENTRED PRACTICES)

**INCLUSIVE PRACTICES** 

LOWER ENGAGEMENT
(AND ACADEMIC PERFORMANCE)

These issues are more pronounced in international students



#### Student Resistance to Active Learning

#### **ACTIVE LEARNING**

#### STUDENT RESISTANCE

**INCREASED ACADEMIC PERFORMANCE** 

LACK OF UNDERSTANDING OF ACTIVE LEARNING

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**INCLUSIVE PRACTICES** 

LOWER ENGAGEMENT
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Engagement paradox in active learning. Engage students with active learning so you can increase engagement?



## Can We Make Active Learning Relatable?



**ACTIVE LEARNING** + SPORTS CULTURE REFERENCES

**ACTIVE LEARNING IN A CONTEXT THE STUDENTS CAN UNDERSTAND** 

USE OF COMMON 'SPORTS LANGUAGE' THAT PARALELS ACTIVE LEARNING

WORK ON INDIVIDUAL AND/OR TEAM SKILLS (E.G. TENNIS VS FOOTBALL)

4) Arce, P. E., & Arce-Trigatti, P. (2000, June). The Parallel Between Active Learning And Sports Coaching Techniques: Analysis And Selected Examples. In 2000 Annual Conference (pp. 5-636).





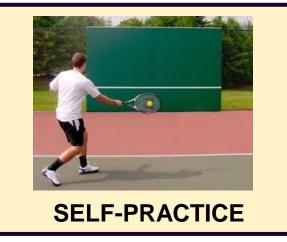


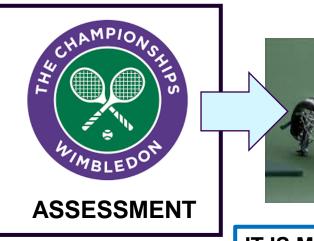






















TRAIN WITH YOUR COACH





























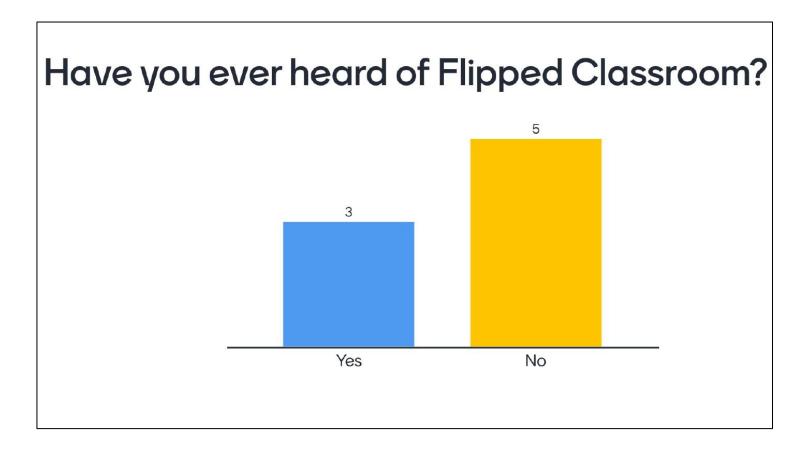
**STUDENTS** 

AND DISADVANTAGED



Cohort of 11 student international students in our MSc in Chemical Sustainability

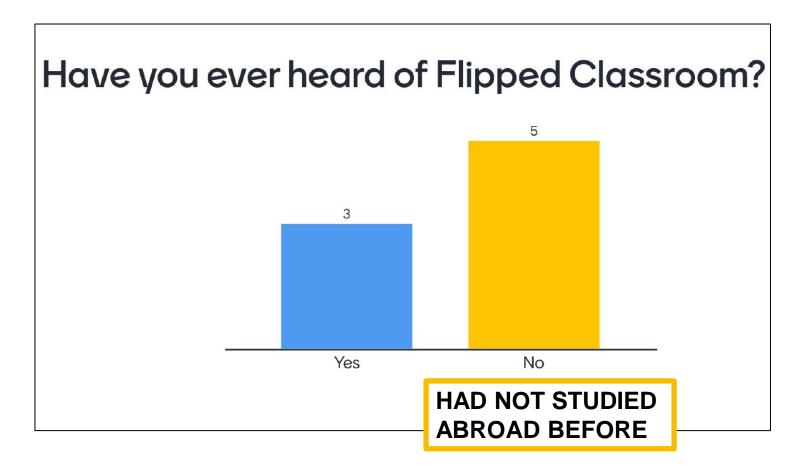
Initial Survey Introductory Lecture 8 answers out of 11 students





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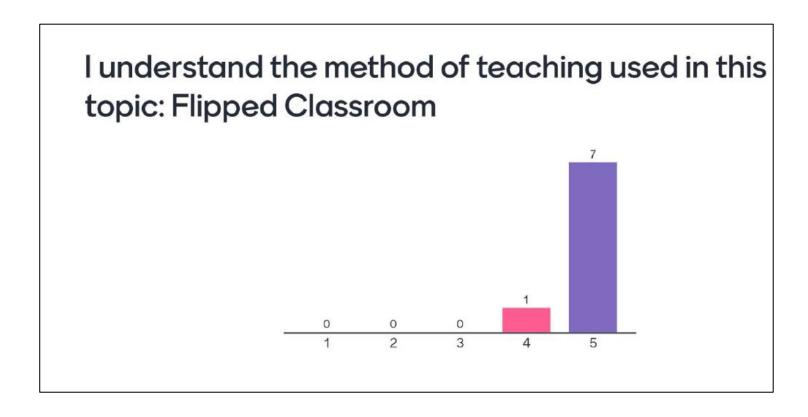
Initial Survey Introductory Lecture 8 answers out of 11 students





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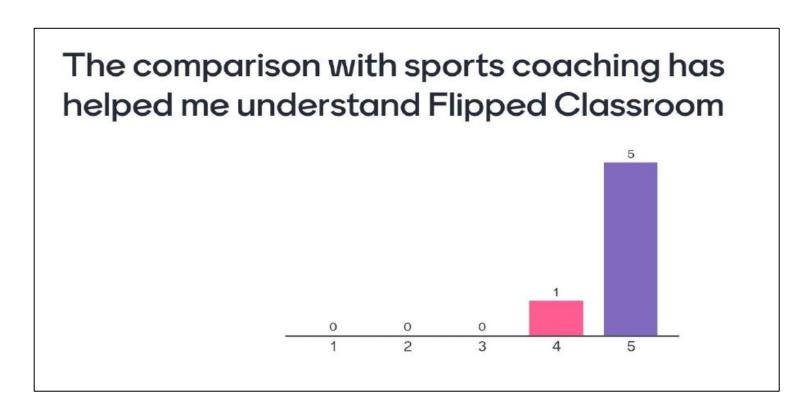
End of Module Survey 8 answers out of 11 students





Cohort of 11 student international students in our MSc in Chemical Sustainability

End of Module Survey 6 answers out of 11 students





#### Students' Feedback

Flipped teaching was useful as we could review the lectures in the comfort of our home and according to our schedule. The workshops were also relevant to the assessment and to real-life scenarios.

The course design is very userfriendly, as it allows students to self-study at home at appropriate times, and important knowledge points of this course are emphasized and applied in the workshop

I like the idea of the flipped classroom. I can pause the videos and have time to digest the information.

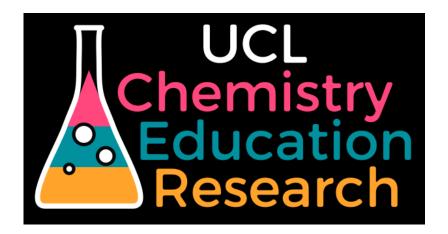
Clear video and slides help me gain a brief and extensive understanding of biomass. The workshop sheets focuses on real productions, making students involved I like the length of the lectures, I like short videos with high volume of knowledge. Thank you for preparing the videos nicely with subtitles.



#### Thanks for your kind attention!







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