Supplemental Materials

Rothman, Steven B. (2014). Evaluating Twitter and Clickers as Audience Response Systems in International Relations Courses. PS: Political Science and Politics, 47(3).

Student Feedback Survey Questions Conducted Daily 2

Twitter Survey Results Conducted at End of Course 2

Clicker Survey Results Conducted at the End of the Course 4

Twitter and Clicker Guides for Students 5

Sample Clicker Questions 5

## Student Feedback Survey Questions Conducted Daily

|  |  |  |
| --- | --- | --- |
| **Q1** | **Did you attend the full lecture (both periods) today?** | |
| 3 | *I attended both lectures/Full Class.* | |
| 2 | *I attended only one lecture.* | |
| 1 | *I attended only one part of the lecture* | |
|  |  |  |
| **Q2** | **How would you rate your "attentiveness" or "interest" in today's lecture?** | |
| 4 | *I was very attentive.* | |
| 3 | *I was somewhat attentive, but also somewhat distracted.* | |
| 2 | *I was mostly distracted, not very attentive.* | |
| 1 | *I was not attentive at all (sleeping, etc.)* | |
|  |  |  |
| **Q3** | **Did you participate in today's lecture?** | |
| 3 | *I asked a question or made a comment.* | |
| 2 | *I only participated in group discussion.* | |
| 1 | *I did not participate in class (I only listened).* | |
|  |  |  |
| **Q4** | **Overall, how would you grade today's lectures?** | |
| 5 | *A+* |  |
| 4 | *A* |  |
| 3 | *B* |  |
| 2 | *C* |  |
| 1 | *F* |  |

## Twitter Survey Results Conducted at End of Course

|  |  |
| --- | --- |
| 1) Which of the following social networks do you use? | |
| Twitter | 41.03 |
| Facebook | 56.41 |
| Google+ | 0 |
| Mixi | 2.56 |
| 2ch | 0 |
| none | 0 |
|  |  |
| 2) How often did you use twitter before taking this course? | |
| I never used twitter before taking this course | 64.1 |
| I used it rarely, but I had an account | 12.82 |
| I used it sometimes | 15.38 |
| I used it often | 2.56 |
| I used it at least every day | 5.13 |
|  |  |
| 3) How did you use twitter during the course? (Select all that apply) | |
| I posted twitter message(s) during the class lectures | 10.34 |
| I read twitter during the class lectures | 31.03 |
| I read twitter before or after class | 55.17 |
| I posted twitter message(s) before or after class | 3.45 |
|  |  |
| 4) How often did you READ twitter during the course? | |
| Never | 41.03 |
| Rarely | 30.77 |
| Sometimes | 17.95 |
| Often | 10.26 |
| At least once a day | 0 |
|  |  |
| 5) How many times did you post to twitter during this course? | |
| Never | 87.18 |
| 1-2 | 5.13 |
| 2-5 | 7.69 |
| More than 5 times | 0 |
|  |  |
| 6) How often did you interact with other students in the class by participating in discussion using twitter? | |
| Never | 82.05 |
| Rarely | 10.26 |
| Sometimes | 5.13 |
| Often | 2.56 |
|  |  |
| 7) What type of feedback or comments did you post/tweet during the class presentations by the instructor? Choose as many as needed. | |
| None | 81.58 |
| Speed of Speech | 5.26 |
| Language Difficulties/problems | 2.63 |
| Content related questions | 2.63 |
| Share your own viewpoint/make a comment | 5.26 |
| Ask a question for deeper knowledge | 2.63 |
| Describe your interest in the topic | 0 |
| Other | 0 |
|  |  |
| 8) How often did you interact with other students and help by answering their questions using twitter? | |
| Never | 87.18 |
| Rarely | 7.69 |
| Sometimes | 5.13 |
| Often | 0 |
|  |  |
| 9) Which of the following were reasons that you did not use twitter during this course? | |
| I do not really understand twitter | 34.21 |
| I do not know how to use twitter or I do not have a twitter account | 10.53 |
| I do not have access to a computing device or portable computing device | 18.42 |
| The material is not challenging enough for me to need twitter | 2.63 |
| I had no questions to ask or I had no answers to give | 10.53 |
| I am shy to use twitter for class | 0 |
| I want to concentrate in class (twitter is distracting) | 7.89 |
| Other | 15.79 |
|  |  |
| 10) How do you feel twitter changed your participation in this course? | |
| I don't think twitter made a difference in my participation | 35.9 |
| I feel like I participated MUCH LESS | 61.54 |
| I feel like I participated SLIGHTLY LESS | 2.56 |
| I feel like I participated SLIGHTLY MORE | 0 |
| I feel like I participated MUCH MORE | 0 |
|  |  |
| 11) How do you feel twitter helped or hurt your learning experience in the course? | |
| Twitter made no difference in my learning | 72.97 |
| Twitter helped me learn more | 2.7 |
| Twitter distracted me or made me learn less | 2.7 |
|  |  |
| 12) How do you feel you enjoyed twitter during the course? | |
| I did not care about twitter | 66.67 |
| I enjoyed the use of twitter in the course | 25.64 |
| I did not enjoy the use of twitter in the course | 7.69 |
| Twitter distracted me in class | 0 |
|  |  |
| 13) Would you encourage the use of twitter in other courses? | |
| It makes no difference | 62.16 |
| Yes, I like it. | 27.03 |
| No, I dislike it. | 8.11 |
|  |  |
| 14) How do you use your cell phone, iPad, or other computer device during class? | |
| dictionary | 47.37 |
| Internet websites or research | 47.37 |
| communication (email or texting) | 5.26 |
| reading the news | 0 |
| social networking (Facebook, twitter, etc.) | 0 |
| I don't use any portable computing device in class | 0 |
| I use it for something else (other) | 0 |

## 

## Clicker Survey Results Conducted at the End of the Course

|  |  |
| --- | --- |
| 1.) What Grade do you think you will get in this class? | |
| A+ | 23% |
| A | 23% |
| B | 32% |
| C | 23% |
| F | 0% |
|  |  |
| 2.) What is your year? | |
| 4th | 52% |
| 3rd | 35% |
| 2nd | 10% |
| 1st | 3% |
|  |  |
| 3.) What is your major? | |
| International Relations and Peace Studies | 7% |
| Environment and Development | 0% |
| Tourism | 0% |
| Cultural Studies | 18% |
| APM Student | 43% |
| APS Undecided | 32% |
|  |  |
| 4.) How did you like this class? | |
| Excellent | 43% |
| Good | 37% |
| So-So | 17% |
| Not so Good | 0% |
| No Comment | 3% |
|  |  |
| 5.) How much did you learn in this class? | |
| More than other classes | 55% |
| About the same as other Classes | 45% |
| Less than other classes | 0% |
| No Comment | 0% |
|  |  |
| 6.) What was the best thing about this class? | |
| The content | 24% |
| The slides | 6% |
| The readings | 3% |
| The clickers | 9% |
| The teacher | 58% |
|  |  |
| 7.) What was the worst thing about this class? | |
| The content | 0% |
| The slides | 9% |
| The readings | 78% |
| The clickers | 12% |
| The teacher | 0% |
|  |  |
| 8.) How would you rate the course difficulty? | |
| Very Hard | 19% |
| Hard | 41% |
| Average | 38% |
| Easy | 3% |
| Very Easy | 0% |
|  |  |
| 9.) Would you recommend this class to friends? | |
| Definitely | 48% |
| Maybe | 45% |
| No | 6% |
| No comment | 0% |
|  |  |
| 10.) Would you take another class from this professor? | |
| Definitely | 53% |
| Maybe | 41% |
| No | 6% |
| No comment | 0% |

## Twitter and Clicker Guides for Students

1. What is twitter? It is a real-time information network, consisting of tweets. Each tweet is a message fewer than 140 characters.
2. Get ready!

Step 1: sign up at www.twitter.com

Step 2: connect to our class’s twitter account [@apuir]

**#APUIRS** is a hash tag for this course.

Step 3: make your first tweet, for example: *this is my first tweet #APUIRS*

1. In this class, twitter is used for communication, discussion, sharing information, posting questions, comments and feedbacks.
2. Composing tweets: your tweet may contain
3. Questions: for example

*Do you think you make rational decisions in your daily life? What kinds of decisions would you think are not rational? #APUIRS*

1. Comments or response to questions
2. Links
3. Further information
4. Reminder

Remember to add **#APUIRS** to your tweets.

:StudentClickerGuide.pdfKeep thinking and make new tweets whenever possible.

## Sample Clicker Questions

### Discussion-Based Questions

Who has the most power?

* Superman
* Batman
* Wonder Woman
* Santa Claus

What is the biggest challenge to states and state sovereignty?

* Transnational Crime
* Trasnational Movements
* Globalization
* Ethnonational movements

What makes individuals most influence in international politics?

* Weak domestic institutions
* The type of issue being addressed
* The personality of the person
* The power the person maintains
* The message the person brings

Is [Country Name] a revisionist or a status quo state?

[China; USA; Russia; Japan; Iran; DPRK]

“Conflict and cooperation are caused by differences in culture.” What is the independent variable in that statement?

* Culture
* Conflict
* Cooperation

Which is true about democracy and war?

* democracies fight fewer wars than non-democracies
* democracies fight more wars than non-democracies
* democracies and non-democracies fight the same
* democracies fight longer and harder than non-democracies
* democracies fight each other less than they fight non-democracies

Which is the primary conclusion of offensive realism?

* proximity is important
* global hegemony is possible and desirable for states
* states do not always seek power
* Individuals are important influence on international politics.