A Mobile Audience Response System and Learning Platform for Student Engagement

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Objective:

- To learn how to integrate a mobile audience response system (ARS), Top Hat, in the classroom to improve student engagement. [https://tophat.com](https://tophat.com)

The Top Hat system is just one of many mobile (BYOD) classroom engagement platform that can be accessed from any mobile device.
Rationale for Using Mobile ARS Technology

- Mobile ARS technology replaces older clicker technology.
- It provides **meaningful and timely feedback** in large and small classroom settings that is sometimes challenging and difficult.
- It engages **all students simultaneously** with material, as a basic active learning strategy.

From Gosseau et al. (2016) use mobile ARS as a tool to support teaching, not as the focus of your teaching.
Top Hat Course Experiences

1. **F2015- S2017** in the **Veterinary Medicine (VM) 510/511/512** microanatomy and gross anatomy courses
   - Questions used for engagement, stimulate peer interactions & participation
   - Peer teaching to assess daily student presentations (peer teaching and communication exercises for students feedback) in VM 511
   - Daily anatomy lab questions (**review or key concepts**)

2. **S’2016 & 7** weekly in **Neuro 404** labs and lectures.
   - Weekly MCQ problem sets and review questions (e.g. short answer, click on target, matching) for integration of lecture & lab concepts.
   - Created **on-line** laboratory manual in collaboration with Top Hat.

3. **Veterinary Anatomy 308**
   - Questions used for engagement, stimulate peer interactions & participation; Afterward, questions are available for review.
   - Weekly prefix, suffix and root word matching questions as homework.
What Can Top Hat Do?

- **In-class questions (BYOD-ARS)** — Multiple formats of questions available
  - Anonymous or not
  - Graded or not, participation credit or not
  - Synchronous or asynchronous (self-paced)
  - Option to leave open as review questions

- **Out of class questions**
  - Answer submissions with or without hints or feedback
  - Homework or Review Questions

- **Pages** — more complex content +/- embedded questions; electronic documents

- **Discussions**— anonymous surveys

- **Attendance feature** (NOT A REASON TO USE TOP HAT)
A course called "Top Hat How To" Sandbox Course, was created go to the following URL https://app.tophat.com/e/948529; to demonstrate how Top Hat looks from a learners perspective.
Question on the Fly!

- Uses **Presentation Tool**, which floats inconspicuously over your presentation software (Powerpoint, Keynote, other).
- May choose multiple choice, word answer or numeric answer questions. Option to attach screen shot.
- After students respond (or before they are done) have option to view spread of answers, indicate right answer.
- Saves as “Quick Ask” question in course Content with date and time.
Now create your own course in Top Hat and create a couple sample questions then share out (present a question).

- If you haven’t signed in create instructor account to create an account. If you want your students to access it will need them to have student accounts.

- Take a few minutes to create a question if you have a device that is capable.
Neuro 404 Student Responses

Top Hat was Effective for Integrating Neuro 404 Lab and Lecture Material

Top Hat was Effective for Stimulating Discussions with My Table Mates

I Used Top Hat for Review of both Lab and Lecture Materials


