



Remote Tutoring

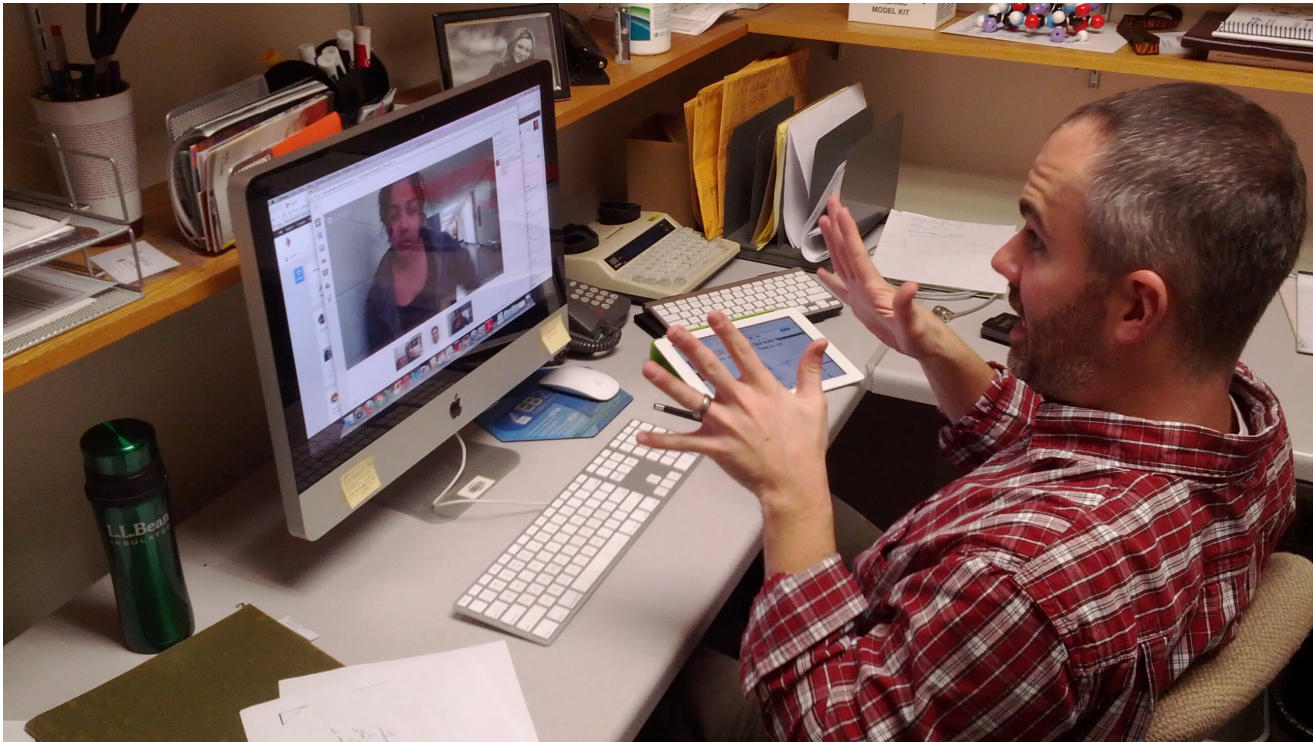


Photo of student receiving tutoring. Student is seen on computer screen, tutoring professor pictured sitting at his desk in front of the computer.



Remote Synchronous Tutoring Strategies

- 1:1 or 1:2+
- Google+ Hangouts as videoconference/chat platform
- 15 min-3 hr sessions (average 61 min)
- Appointment-based scheduling
- Homework-oriented (vs. basic skills)
- Macs, PCs, desktops, laptops, Chromebooks



Synchronous Tutoring Benefits

- Sharing documents
- Searching & highlighting key phrases with student
- Observing students' homework, watching for mistakes, providing faster feedback
- Classes with many online resources
- Better accommodation to student schedules
- Meet multiple students simultaneously



Synchronous Tutoring Challenges

- Digital whiteboard
- Unannounced changes in Google+ interface
- Eye contact & turn-taking different online



Remote Asynchronous Tutoring Strategies

- 1:1 tutoring sessions
- E-mail & VP messages, photos, diagrams, handouts, shared documents
- Homework-oriented (vs. basic skills)
- Macs, PCs, desktops, laptops, tablets, phones, Chromebooks



Asynchronous Tutoring Benefits

- Provided flexibility for travel when there were time differences between tutor and student or other schedule conflicts
- Allows students to process material at their own pace



Asynchronous Tutoring Challenges

- Helping students to problem-solve
- Lack of spontaneous dialogue between student and tutor



Remote Tutoring – Lessons Learned to Date

- Tutoring strategies
 - Synchronous vs asynchronous
- Scheduling
 - Appointments vs “walk-in”
- Challenges
 - Network/browser inconsistencies
 - Training & technical assistance
 - Google+ UI changes
- Strategies
 - Ethernet connection/Chrome browser
 - Ongoing feedback & technical assistance
 - On-line guides
 - Google Educational Enterprise account



Socialization

- Remote mentoring
 - D/HH STEM professionals
 - Personalized recruiting
 - Application including background check
 - Google+ presence
 - Mentoring platforms
 - Google+ private community
 - Google+ Hangouts
 - Email
 - Face-to-face meetings
 - YouTube video interview



Socialization

- Peer-to-peer (community) interaction
 - Google+ private community
 - STEM articles of interest
 - Share student schedules
 - Announcements (events, internships, scholarships)
 - Open forum for mentors to provide 1-to many mentoring in forms of
 - Information sharing (e.g., pictures of work)
 - Job opportunities
 - Offers for assistance



Socialization – Lessons Learned to Date

- Someone to facilitate engagement
 - Encourage through personal contact
 - Biweekly newsletters
- Critical mass of participants
 - Started Google+ Private Community with about 25 participants (January, 2013)
 - Activity increased with approximately 55 participants (September, 2013)
 - Current membership ~70 participants



Accessible Media

- Curated STEM Resource library on our public website: www.dhhvac.org
 - Project publications and presentations
 - Relevant work by others
 - STEM ASL dictionaries (e.g., ASL-STEM Forum)
 - Links to accessible STEM resources (e.g. Khan Academy, Math for College)
- STEM-relevant articles and videos in Google + Private community



Accessible Media— Lessons Learned to Date

- Importance of being assertive!
 - Not all videos are captioned
 - Sometimes, captioned versions are available, but haven't been posted



Future Activities

- Remote Captioning in Hangouts
- Remote Interpreting in Hangouts
- Procedure manuals
 - Remote Tutoring
 - Remote Mentoring
 - Implementation



Extending Beyond D/HH

- Benefits for students with other kinds of disabilities
 - Mobility
 - Autism Spectrum
 - Low vision
 - Chronic medical conditions
 - . . .



Discussion

Questions?

Answers!



Contact Information

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Thank you!