



Remote Tutoring

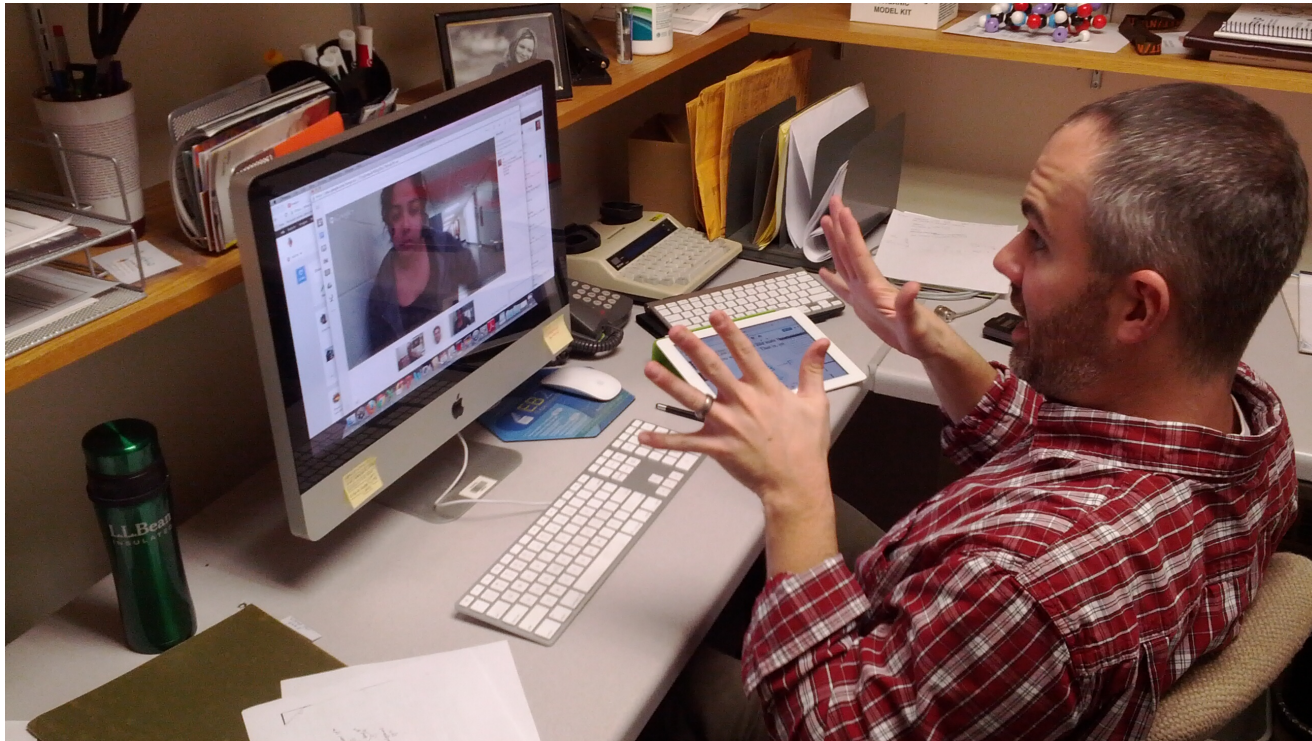


Photo of student receiving tutoring. Student is seen on computer screen, tutoring professor pictured sitting at his desk in front of the computer.

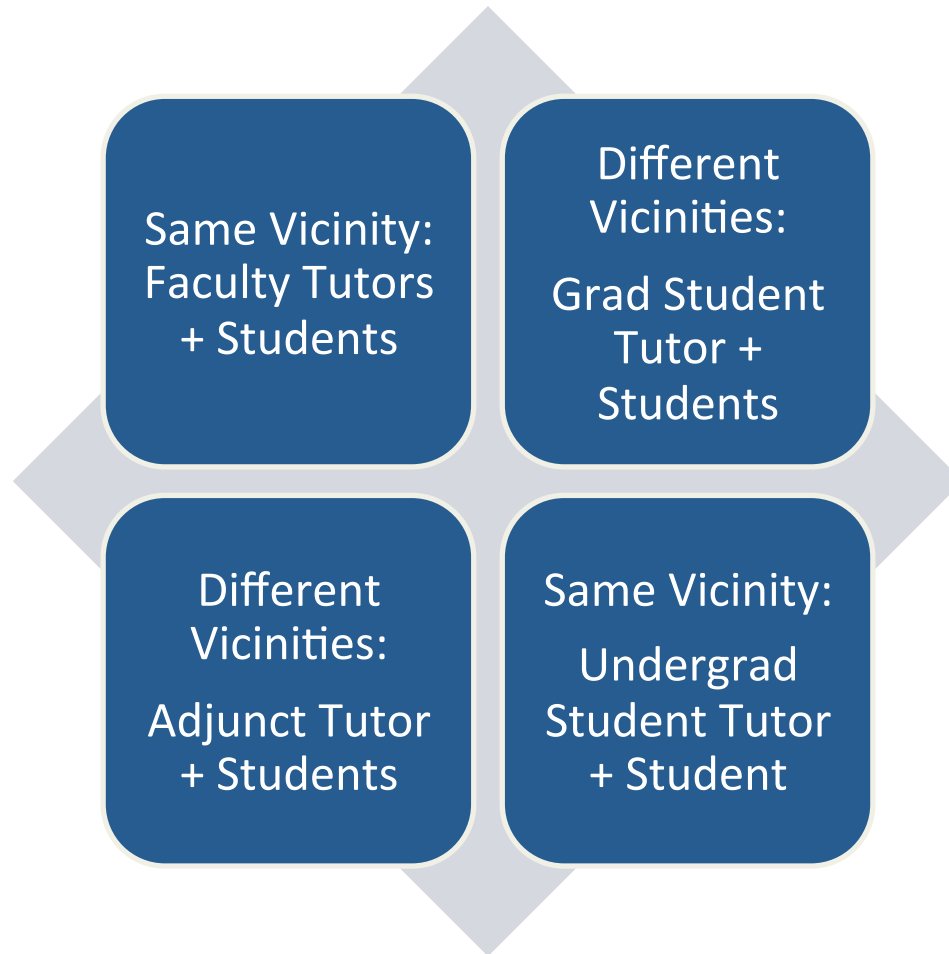


Remote Tutoring

- Framework based on traditional, face-to-face model used at RIT/NTID:
 - NTID faculty provides tutoring to D/HH students who are enrolled in other RIT colleges (more than 14,000 hours in STEM tutoring to ~500 students in 2011-12)
 - Appointment-based (not walk-in)
- Synchronous vs. asynchronous models



Tutoring Models





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, 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 v asynchronous
- Scheduling
 - Appointments v “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

This is an example of a post within the private community.

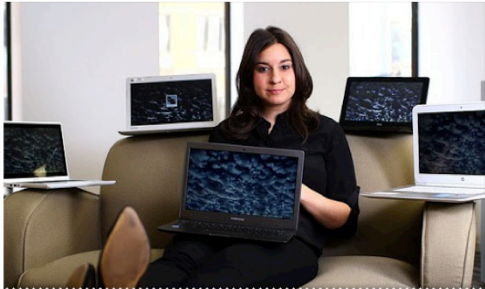
+1's



The DHH Virtual Academic Community (Private)

E Clymer
VAC News and Stories - Apr 22, 2014 #Chromebook

What is the VAC Experience with Chromebooks?



Five years after their inception, Chromebooks inch toward replacing PCs and Macs
[The Wall Street Journal](#)

Five years after their inception, the browser-based laptops inch toward replacing PCs and Macs

+5

3 comments

J. MacDonald Apr 23, 2014
It's very light compared to my PC laptop!

D Easton Apr 23, 2014
I like the screen size and how light it is compared to my old PC laptop too!

C. Brucker May 13, 2014
I once used a Chromebook, however, it lacks the programs that I need for my studies, such as Revit, AutoCAD, Photoshop, etc. I always feel that desktop is always a best option for me... I'm sticking with a tablet with a keyboard attached.

Add a comment...



Post



Additional comments



Socialization – Lessons Learned to Date

- Someone to facilitate engagement
 - Encourage through personal contact
 - Weekly 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 64 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



Recruiting Strategies

- Tutors
 - Department Chairs
 - Individual contacts
 - Professional development training session
- Students
 - Tutors
 - Individual contacts
- Mentors
 - Recommendations from administration
 - Alumni association
 - Individual contacts



Monitoring Community Usage

Communication Channel	Tracking Method
Google+ Private Community	Relatively easy--manual
Hangouts	Somewhat easy—need notification of hangout
Enterprise email account	Somewhat easy using Google Analytics
Chat	Difficult



Future Activities

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



Discussion

Questions?

Answers!



Contact Information

Deaf STEM Community Alliance

<http://www.dhhvac.org>

OR

`lisa.elliott@rit.edu`



Thank you!