Designing Effective and Interactive Online Learning Spaces

Screencasting (create lessons by recording your screen)
- Jing: http://www.techsmith.com/jing.html
- Screencast: http://www.screencast.com
- Camtasia Studio: http://www.techsmith.com/camtasia.html
- SnagIt 11 (the new version of SnagIt does quick-produce screencasting like Jing)
- ScreenChomp (for iPad, whiteboard, markers, and highlighters)

Scheduling, Appointments, Information Collecting
- Doodle: http://doodle.com/ (for finding a compatible meeting time)
- TungleMe: http://tungle.me (for allowing students to make individual appointments)
- Google Forms: http://www.google.com/google-d-s/forms/ (collect info from students)

Synchronous Communication with Students (SAVI = Synchronous Audio Visual Interaction)
- Google+ Hangout: http://www.google.com/+/learnmore/hangouts (up to 10 webcams + screenshare + Google Doc collaboration + simultaneous YouTube video watching)
- Instructure Canvas has the cleanest and easiest SAVI system I've ever seen.
- Vyew: http://vyew.com/s/ (can have one room for the class that stays open all semester)
- Google Moderator: http://www.google.com/moderator/
- Google Docs: https://docs.google.com/
- Skype: http://www.skype.com (free version limited to two webcams)

Asynchronous Communication
- Discussion Boards within LMS (incorporate Jing and cell phone cameras)
- Facebook Groups: http://www.facebook.com/about/groups (can be private or public)
- Facebook Fanpage: http://www.facebook.com/pages/create.php (open to public)
- Twitter with a class hashtag (open to public, allows students to interact with professionals in their field, other math students, other math professors)
- Google Groups: https://groups.google.com/forum/?fromgroups#! (discussion boards with a "push" to email – can live on after the course is over – private or public)

RSS: Bring real-world content to your course by subscribing to the RSS (daily news stream) of a section of a Newspaper or Magazine, the news feed of a Professional Organization, or a blogger who curates the news in your field. Here are some sites that might be of interest.
- New York Times: http://www.nytimes.com/services/xml/rss/index.html
- Wall Street Journal: http://online.wsj.com/public/page/rss_news_and_feeds.html
- The Economist: http://www.economist.com/rss/news_analysis_and_views_rss.xml
- NPR: http://www.npr.org/rss/
- BBC: http://news.bbc.co.uk/2/hi/help/rss/default.stm
- Al Jazeera: http://www.rsssearchhub.com/feeds/al-jazeera-feeds/

Netvibes: http://www.netvibes.com/en Set up a free public page to pull in a variety of RSS, like a news page for your subject area, then make it the landing page for your class in the LMS (catch: only one public page per email address)

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Mindmapping Tools

- Mindomo: http://mindomo.com (new bookmarking browser extension)
- Novamind: http://www.novamind.com/
- MindJet: http://www.novamind.com/
- The Brain: http://www.thebrain.com/

Video Collections

- TED Talks: http://ted.com
- AtGoogleTalks: http://www.youtube.com/user/AtGoogleTalks/videos
- Academic Earth: http://academicearth.org/
- Harvard at Home: http://athome.harvard.edu/archive.html
- Ignite Talks: http://igniteshow.com/ (5-minute talks)
- Sputnik Observatory for the Study of Contemporary Culture: http://www.sptnk.org/
- MIT Open Courseware: http://ocw.mit.edu/index.htm
- Nobel Prize Video Collection: http://www.nobelprize.org/mediaplayer/
- Oxford Internet Institute: http://webcast.oii.ox.ac.uk/
- JFK School of Government: http://www.hks.harvard.edu/multimedia/videoarchive.html
- Pecha Kucha: http://pecha-kucha.org/presentations/

TED-Ed: http://ed.ted.com (launched 4/24/12)

- Roll a lesson from any TED Talk, TEDxTalk, or video on YouTube
- Lessons can include video, mult-choice quizzes, open-ended questions, and additional resources
- You can "flip" a lesson to personalize it to your own course and students
- Data on your students can be tracked (Students can log in with Facebook or a TED account)

Google Projects and Applications

- Google Art Project: http://www.googleartproject.com/
- Google Earth: http://www.google.com/earth
- Google Maps: http://maps.google.com (layers: streetview, weather, satellite, terrain, webcam)
- Ocean in Google Earth: http://www.google.com/earth/explore/showcase/ocean.html
- Google Sky: http://www.google.com/sky/
- Google Books: http://books.google.com/
- Google Scholar: http://scholar.google.com/
- Google Drive: http://www.google.com/apps/intl/en/edu/drive.html (5 GB cloud storage)
- Google Alerts: http://www.google.com/alerts
- Google Trends: http://www.google.com/trends/

Zygote Body: http://www.zygotebody.com/
Encyclopedia of Life: http://eol.org/
Wolfram Alpha: http://wolframalpha.com
Wolfram Demonstrations Project: http://demonstrations.wolfram.com/ (needs CDF plugin)