Step 1. Download Handbrake from http://handbrake.fr/downloads.php

Step 2: Open up the software and import the video you want by clicking "Source" at the top left.

Enter and select the video settings below that include:

- Format
- Video Codec
- Frame Rate
- 2 Pass Encoding
- Web Optimized
- 5G Support
- Average Bitrate (this setting can be decreased if you have a long video file over 10 minutes or increased to 700 if you need higher quality video, such as a promotional marketing video)

000		Hand	Brake				\square
Source Start Paus	se Add to Queue Show Queue		Picture Settings	Preview Wi	ndow Activity	Window	Toggle Presets
Source: test-2.m4v Title: test-21-00h01m47s Angle: : Chapters : 1 : through 1 : Duration: 00:01:47 Destination							
File: /Users/scottlu	undergan/Desktop/test-2.m4v						Browse
Output Settings: C	Lustom	arge file size	es Advanced	nized Chapters	Ø iPod 5G s	upport	
Video Codec:	H.264 (x264)	Quality:) Target size (MB)		700		
Framerate (FPS):	Same as source \$	(Average bitrate	(kbps):	500		
		C	Constant quality	<i>r</i> .	RF: 20		
ł	 ✓ 2-pass encoding ✓ Turbo first pass 				<u> </u>		
Picture Size: Sourd Picture Cropping: Video Filters:	ce: 960x540, Output: 960x540, / Auto 0/0/0/0	Anamorphic:	960x540 Strict				
Encode Finished.						No e	ncode pending

1

Step 3: Enter and select your audio settings that include:

- Track
- Codec
- Mixdown
- Sample Rate
- Bitrate (this setting can be increased if you need higher quality audio)

000		HandBrake		\square
Source Start Pause Add to	Queue Show Queue	Picture Settings	Preview Window Activity Window	Toggle Presets
Source: test-2.m4v	Angle:	(Chapter A)	*) through (1 *) Duratio	a: 00:01:47
Destination				
File: /Users/scottlundergan/D	esktop/test-2.m4v			Browse
Output Settings: Custom				
Add All Tracks	Video Audio	Subtitles Advanced	Chapters	
Track	Codec	Mixdown	Samplerate Bitrate (kbps) D	RC
0: English (AAC) (2.0 ch)	AAC (CoreAudio)	Mono 🛟	44.1 🛟 64 🛟	0
None	÷	Å	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
			No e	ncode pending

Step 4: Select Picture Settings at the top of the software and adjust your settings to the size you want your video to be. Make sure Keep Aspect Ratio is selected.

8	Picture Settings
Preview	Size Filters
Width: <u>608</u> Keep Aspect Ratio: ☑ Height: <u>336</u> Anamorphic: <u>None</u> Modulus: <u>16</u> €	Cropping: • Automatic • Custom • Custom • • • • • • • • • • • • • • • • • • •
Source: 960x540, Output: 608x336	

The below size is an example of a widescreen size for web video.

Use one of the following dimensions that range from small to large.

Standard Video (shaped almost like a square):

352 X 224

450 X 300

480 X 320

512 X 336

608 X 400

Widescreen Video:

320 x 176

400 x 224

448 X 256

512 x 288

608 x 336

For iTunes U dimensions, you're not allowed to go above 640X480 for standard video. If you're doing widescreen video, the proper setting for iTunes U would be 640X360

Step 5: Exit out of **Picture** Settings and select **Start** at the top of the software. This will create your video file to the **Destination** you choose, located right under **Source**.

000		HandBrake		
Source Start Pause Add to Queue	2 Show Queue	Picture Settings Prev	view Window Activity Wi	indow Toggle Presets
Source: test-2.m4v Title: test-21-00h01m47s Destination File: /Users/scottlundergan/Deskto Output Settings: Custom Format: MP4 file	Angle:	Chapters 🗘 1 🛟	through 1 + C	Duration: 00:01:47 Browse port
Video Codec: H.264 (x264) Framerate (FPS): Same as source ✓ 2-pass encod ✓ Turbo first Picture Size: Source: 960x540, Our Picture Cropping: Auto 0/0/0/0 Video Filters:	Video Audio S Qualit Qualit ing pass tput: 960x540, Anamo	ubtitles Advanced Cha y: O Target size (MB): O Average bitrate (kbp: O Constant quality: Prphic: 960x540 Strict	pters 700 s): 500 RF: 20	
Encode Finished.				No encode pending

Step 6: If you are posting to the streamer, locate your new file and change your video extension from .m4v to .mp4 as seen below.

- Original file that exported from Handbrake

🔳 test-2.m4v

- New Mp4 file that can go on the streamer

```
test-2.mp4
```

A note about video playback on the web with iTunes U and the USD Streamer

If your file takes a while to stream or has to load the whole video before it plays, you can run it through this Adobe Air app.

http://renaun.com/blog/code/qtindexswapper/

Optimizing Web Video Files for the USD Streamer

Adobe Air is designed so one piece of software can run on PC and Mac.

You can download Adobe Air below.

http://get.adobe.com/air/

If you have any questions, contact Media Services at extension 5943 or <u>scottlund@sandiego.edu</u>