REQUIRED TECHNOLOGY and EQUIPMENT FOR LACM STUDENTS

Requirements for individual majors in **GREEN**

ITEM	REQUIRED MINIMUM	MAJOR	ESTIMATED COST / STUDENT PRICING
Computer	MacBook Pro (OS 10.14.6 or later)	ALL	Est. $599 used	$1299 new
	1TB external storage	Piano/CVM/MPR	$45/1TB - $170/1TB ssd – $299/2TB ssd
Software	Sibelius	ALL	$9.99/mo (education pricing)
	Logic Pro X	ALL	$199 / ed. bundle = 5 programs
	Ableton Live	CVM	$269 (education pricing)
	Pro Tools	MPR	$9.99/mo (education pricing)
	MainStage	Piano	MainStage included in Logic ed. bundle
USB Audio Interface	single input interface (Focusrite Scarlett solo)	ALL	$109.99
	double input interface (Focusrite Scarlett 2i2 OR MOTU M2)	Optional	$159.99
MIDI Keyboard	minimum of 61 keys and sustain pedal, 76 keys preferred	ALL	$177 /61 keys - $269/76 keys
	88 keys, semi-weighted	Piano	$229 (M-Audio) - $999 (Roland A-88)
Headphones	Wired, over ear (AKG K240 or comparable)	ALL	$69 (AKG K240)
Microphone	Shure SM58 (or comparable)	ALL	$99
	Audio-Technica AT2020 (for recording)	Vocal (optional)	$99
	Mic stand	ALL	$25
	XLR Cable	ALL	$19 +
	Pop Filter	ALL	$13-$35
Instruments	Electric Bass Guitar	Bass	$700 – Bass/Fender
	Electric Guitar, amplifier, Nylon Guitar (required Quarter 7), Acoustic Guitar (required Quarter 10)	Guitar	$699 – Electric/Fender Tele - $135 – Acoustic - $140 – Nylon - $129 – Amp/Fender Champ
	Brass and Woodwind Instruments: Trumpet, Trombone, Sax	BWW	$549 – Trumpet - $650 – Trombone – $720 – Alto Sax - $639 – Tenor Sax
	Cymbals, bass drum pedal, practice pad, sticks	Drum	$199/Cymbal Pack - $64+ HiHat – $74+ drum pedal - $25+ Practice Pad
	88 keys, semi-weighted MIDI Keyboard	Piano	$229 (M-Audio) - $999 (Roland A-88)
	Acoustic Guitar (preferred acoustic/electric,)	Songwriting/M. Bus.	SW: $329 – Fender CD60 – MBus: $135 – Acoustic
Other	Printer	ALL	$44+
	Thumb Drive for Back Up (at least 32GB)	ALL	$5/32G - $18/128G
	Staff Paper, pen, pencil, eraser	ALL	

NOTE: Incoming students may already have some or all of the required technology listed above. The total estimated costs include ALL required items on the list – students who already have items on the list should subtract these costs from the overall totals below.

TOTALS	**ALL STUDENTS**	*computer, software, mic, phones*	$2157
	PERFORMANCE MAJORS INSTRUMENTS	**BASS** - *elec. bass guitar*	$700
		BRASS/WOODWIND - *instrument*	$550-$720
		DRUM - *cymbals, pedal, prc.pad*	$362
		GUITAR - *elec., acoustic, nylon guitars*	$975
		PIANO - *88 key MIDI kbd, hard drives*	$399
		VOCAL - *recording mic*	$99
	MUSIC PROD & REC	*Pro Tools 1 year sub., hard drives*	$568
	COMPOSING/VISUAL MEDIA	*Ableton Live, hard drives*	$439
	SONGWRITING	*Acoustic/Electric guitar*	$329
	MUSIC BUSINESS	*Acoustic guitar*	$135

Tech requirements & recommendations for incoming MPR students:

1) Student **must own a personal license of Pro Tools software.** Ownership will be verified.
   If a student wishes to wait with the purchase of the software until officially enrolled at LACM—in order to benefit from the substantial price reduction afforded by Avid's Academic pricing—the purchase must be completed by the end of week 2. (Please note that Pro Tools first is NOT an acceptable version of Pro Tools, as its limitations are substantial.)

2) Since ownership of Pro Tools software is mandatory, it follows that students must own a computer.
   a. We strongly recommend computers made by Apple. Mac Pro, iMac, and MacBook Pro are all acceptable and recommended solutions. A vast majority of professionals in the audio world use Apple computers with Pro Tools (as well as many other DAW solutions). (When needed, it will be a lot easier to get help from fellow students and/or professionals.)

      While Pro Tools will run successfully on PCs, there are too many variables to offer recommendations.

      All students should visit Avid.com, and ensure that their computer meets the minimum requirements to successfully operate Pro Tools.

   b. Buy the best computer you can afford, even if it seems overkill today. This will go a long way in ensuring your system's ability to handle complex productions, and will also improve reliability. Furthermore, the computer will most likely remain within the minimums required by Avid for a longer period in the future.

      We recommend a minimum of 16 GB of RAM, and a 512 GB of internal storage (SSD drive)

      Laptop or desktop. Either is fine. Desktop performance, connectivity & expansion options are usually slightly better than those offered by laptop computers.

   c. Since it is not advisable to keep Pro Tools sessions on a computer's (internal) startup drive, we strongly advise the purchase of the following:
      i. 1x Portable 1GB external SSD drive. Use this to store all projects, and to transfer work to and from campus.
      ii. 1x 2GB (more—or multiple—is better) External Hard drive for backup of data. Additional drives recommended for long-term storage/archiving purposes.
      iii. If student owns large sample libraries, it is advisble to store those on a fast (SSD) dedicated, external drive.
      iv. All drives should feature USB 3 interfaces. Drives with Thunderbolt interface are OK (even desireable), but student must also acquire a Thunderbolt-to-USB adapter cable.

3) Ownership of a good pair of "closed back" headphones is mandatory. These are required for work in labs.
   a. It is also strongly recommended that student acquire a good pair of open back headphones, for work at home, or away from others.
      (Sennheiser 580, 600, 650. etc., or Drop.com 58X Jubilee, or Sennheiser HD 6XX)