

Computing Recommendations and Requirements for Music Technology at the School of Music and Dance

To participate effectively in music technology degree programs students must have unlimited access to specific computer-based music applications and tools to produce homework and related assignments. Assignments across the music technology curricula assume this capability. To this end, it is recommended that undergraduate music technology majors own personal laptop computers. For graduate students, owning a laptop computer is even more essential and, therefore, is required.

Generally, students should expect to spend between \$1500 and \$3000 on a new laptop computer with accessory components. Additional software costs will vary depending on the specific degree program. Please note that the average lifecycle for a laptop computer is 3-4 years. Computing applications and requirements may change over the course of a student's college career. Undergraduate and doctoral students particularly may need to be prepared for the possibility of an upgrade to their initial computer prior to graduation.

While the UO specifies no required or preferred vendor, laptop computers may be purchased at the UO Duck Store, which offers competitive pricing to students accepted to the university.

• **The Bachelor of Science, Music Technology Option** recommends a Mac OS laptop computer. The following are suggested laptop minimums:

- 13"+ display size
- Intel i5 Dual Core +
- 8-16 GB RAM
- 256 GB or larger hard drive
- 1 GB Video Card
- Protective sleeve or carrying case to transport the laptop safely

It is also suggested that students purchase the following external components:

- External monitor, 22" +
- External hard drive (1-2 terabytes) for data backups

Required software includes:

- Apple's Logic (current version)
- Cycling74's Max (current version)

• **The Master of Music in Intermedia Music Technology** requires a Mac OS laptop computer. The following are minimum laptop requirements:

- 13" + display size
- Intel i7 Dual Core +
- 8-16 GB RAM
- 512 GB or larger hard drive
- 1 GB Video Card
- Protective sleeve or carrying case to transport the laptop safely

It is also suggested that students purchase the following external components:

- External monitor, 22" +

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External hard drive (2-3 terabytes) for data backups

Required software includes:

Apple's Logic (current version)
Cycling74's Max (current version)

• **The Doctor of Musical Arts in Performance of Data-driven Instruments** requires a Mac OS laptop computer. The following are minimum laptop requirements; however, because this degree is predicated on real-time computing, obtaining a laptop with the fastest possible processor speeds and a solid-state drive is considered vital.

13" + display size
Intel i7 Dual Core (as fast as available is preferred)
8-16 GB RAM
512 GB or larger solid-state drive
1 GB + Video Card
Protective sleeve or carrying case to transport the laptop safely

It is also suggested that students purchase the following external components:

External monitor, 22" +
External hard drive (2-3 terabytes) for data backups
Professional-quality audio interface

Required software includes:

Cycling74's Max (current version)

As stated above, due to the fact that the Doctor of Musical Arts in Performance of Data-driven Instruments is dependent on real-time computing, strong consideration should be given to purchasing a Kyma system manufactured by Symbolic Sound. A Kyma system is a combination of a software programming environment and dedicated hardware processors that facilitates the fastest possible real-time computing of sound and music. There are two levels of Kyma systems with their current prices (as of fall 2015) being \$2970 and \$4402 USD, respectively.