DOCTOR OF PHILOSOPHY WITH A MAJOR IN MUSIC TECHNOLOGY

The PhD in Music Technology is a full-time residential program. Students accepted into the PhD program in Music Technology are expected to hold a Masters degree in Music Technology or from an allied field, such as computing, music, engineering, or media arts and sciences. All applicants must demonstrate mastery of core masters-level material covered in Music Technology. This includes proficiency in: Music theory, performance, composition, and/or analysis; Music Information Retrieval, Digital Signal Processing and Synthesis; Interactive Music Systems Design; and Music Cognition.

Proficiency will be assessed through review of a portfolio of the applicant’s work and an interview process. Students may waive the requirement to enroll in specific courses by appealing to the Music Technology Graduate Program Committee. Such appeals will typically be granted only if the student has already taken the same course at Georgia Tech or has taken a substantially equivalent course at another institution, and if the student has earned an exceptional grade in that course.

The Graduate Record Examination (GRE) is required for all applicants. A minimum TOEFL score of 600 (paper-based), 250 (computer-based), or 100 (Internet-based) is required for all non-native English speaking applicants.

School of Music

Program of Study

Requirements of the Ph.D. with a major in Music Technology will include completion of core courses, a minor, elective coursework, a qualifying paper, comprehensive exams and a dissertation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Required Music Technology Core Courses</td>
<td></td>
</tr>
<tr>
<td>MUSI 6001</td>
<td>Music Perception and Cognition</td>
<td>3</td>
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<tr>
<td>MUSI 6003</td>
<td>Music Technology History and Repertoire</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 6202</td>
<td>Digital Signal Processing for Music Analysis and Synthesis</td>
<td>3</td>
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<tr>
<td>MUSI 8001</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 8002</td>
<td>Apprentice Teaching</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Required Music Technology Research Courses</td>
<td></td>
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<tr>
<td>MUSI 7100</td>
<td>Music Technology Research Laboratory</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>Required Music Technology Creative Course</td>
<td>3</td>
</tr>
<tr>
<td>MUSI 6002</td>
<td>Computer Supported Interactive Music</td>
<td></td>
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<tr>
<td>MUSI 6004</td>
<td>Technology Ensemble</td>
<td></td>
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<tr>
<td>MUSI 6203</td>
<td>Project Studio in Music Technology</td>
<td></td>
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<td></td>
<td>Minor Field of Study</td>
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<tr>
<td></td>
<td>Additional Music Technology Electives</td>
<td>6</td>
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<tr>
<td></td>
<td>Additional Music Technology Electives</td>
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<tr>
<td>MUSI 6005</td>
<td>Music Ensemble for Graduate Students</td>
<td></td>
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<tr>
<td>MUSI 6103</td>
<td>Music Recording and Mixing</td>
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<tr>
<td>MUSI 6104</td>
<td>Integrating Music into Multimedia</td>
<td></td>
</tr>
<tr>
<td>MUSI 6105</td>
<td>Digital Media Production and Mastering</td>
<td></td>
</tr>
<tr>
<td>MUSI 6106</td>
<td>Audio Software Engineering</td>
<td></td>
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</tbody>
</table>

Total Credit Hours

The Graduate Record Examination (GRE) is required for all applicants. A minimum TOEFL score of 600 (paper-based), 250 (computer-based), or 100 (Internet-based) is required for all non-native English speaking applicants.

1 Minors, which are selected by students in consultation with their advisor, are designed to enable the student to apply knowledge from other fields toward work in Music Technology. The student is responsible for the full range of knowledge, at the level of professional competence, for the Minor field selected. Minors often focus on traditional fields of study associated with other professions, such as human-computer interaction, digital signal processing, and digital media. Minors typically constitute 9 hours of coursework.

2 Students must take an additional 18 credits of electives. These elective courses may include additional MUSI courses and/or courses in other academic units that are approved by the student’s advisor.

3 MUSI 8002 is a 3-credit course which must be taken twice.