MUSIC

Courses offered by the Department of Music are listed under the subject code MUSIC on the Stanford Bulletin's Explore Courses website.

Mission of the Department of Music

The Department of Music promotes the practice, understanding and enjoyment of music in the University, offering a broad array of educational opportunities with specialization in composition, performance, musicology, ethnomusicology, and music technology.

Learning Outcomes (Undergraduate)

The department expects undergraduate majors in the program to be able to demonstrate the following learning outcomes. These learning outcomes are used in evaluating students and the department's undergraduate program. Students are expected to:

1. select and outline a topic in tonal music analysis; choose methodologies for the explication of the topic.
2. demonstrate understanding of the underlying principles of tonal music analysis through the use of scholarly references and analytical tools and methodologies.
3. utilize primary source materials in written and oral presentations.
4. utilize secondary source materials in written and oral presentations.
5. demonstrate proficiency in academic writing on the subject of tonal music.
6. develop the skills to present a musical analysis to an audience.

Learning Outcomes (Graduate)

The purpose of the master's program is to further develop knowledge and skills in Music, including concentration in the fields of Composition, Music History, Computer-Based Music Theory and Acoustics, or Music, Science, and Technology, and to prepare students for a professional career or doctoral studies. This is achieved through completion of courses, in the primary field as well as related areas, and experience with independent work and specialization.

Suggested Preparation for the Major

Students should allow more than two years for completion of the major, in part because of sequential courses with prerequisite requirements. Early planning is especially important for students who plan to double-major, study abroad or pursue any of the concentrations described below. Music majors should attempt to complete MUSIC 21 Elements of Music I, MUSIC 22 Elements of Music II, and MUSIC 23 Elements of Music III in their freshman year; the series should be completed no later than Autumn Quarter of their junior year. It is recommended that majors complete MUSIC 40 Music History to 1600, MUSIC 41 Music History 1600-1830, and MUSIC 42 Music History Since 1830 in their sophomore year; the series should be completed by the end of their junior year.

Fields of Study or Degree Options

Concentrations

Concentrations (subplans) are offered in five areas: Performance; Conducting; Composition; History, Theory and Ethnomusicology; and Music, Science, and Technology. Subplans are declared in Axess, and appear on the student's transcript and diploma. Guidelines and application information are explained on the "Declare a Concentration (https://music.stanford.edu/academic-programs/undergraduate/current-undergraduates/major/declare-concentration)" pages of the department website. In order to complete requirements in a timely manner, students are urged to select this option no later than the end of the junior year for single-area concentrators and the middle of the sophomore year for multi-area concentrators. Students pursuing multiple concentrations must fulfill all the requirements of each. Requests to declare a concentration must be approved by the undergraduate student services officer in Music.

Departmental Honors

Honors in Music are awarded by the faculty to majors who have produced an independent project of exceptional quality through the concentration program. Students who wish to pursue honors must declare their concentration(s) by May 31 of their junior year (see the undergraduate program. Students who wish to pursue honors must declare their concentration(s) by May 31 of their junior year (see the undergraduate student services officer in Music).

Degree Requirements

Prospective majors are required to choose a faculty adviser and submit a course plan. (Course plans and adviser agreement forms are available from the undergraduate student services officer.) It is recommended that students schedule a consultation meeting with the undergraduate student services officer as early as possible to plan a program of study.

Required Courses

The following courses are required of all majors.

1. Theory

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 21</td>
<td>Elements of Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 22</td>
<td>Elements of Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 23</td>
<td>Elements of Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 24A</td>
<td>Ear Training I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24B</td>
<td>Ear Training II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24C</td>
<td>Ear Training III</td>
<td>1</td>
</tr>
</tbody>
</table>
Students enrolled in 21, 22, or 23 must concurrently enroll in an ear-training and musicianship lab, MUSIC 24A, 24B, or 24C.

Additional Music Theory Requirements

- **Piano Proficiency:** Majors are required to pass a piano proficiency examination as part of the music theory core (MUSIC 21 Elements of Music I, MUSIC 22 Elements of Music II, MUSIC 23 Elements of Music III). The examination is given in the first two weeks of MUSIC 21. Students who do not pass the piano proficiency examination are required to enroll in either MUSIC 12A Introductory Piano Class, MUSIC 12B Introductory Piano Class, or MUSIC 12C Introductory Piano Class concurrently with the music theory core until they are able to pass the examination. The examination consists of scales and arpeggios, performance of a simple tune to be set by the examiner, sight-reading, and the performance of prepared pieces. Download additional information regarding the proficiency examination (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/music/pianoprofexaminfo_0.pdf).

- **Ear Training Elective:** In addition to the theory requirements listed above, majors must successfully complete one unit of an ear training elective course from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 20B</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 65A</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 126A</td>
<td>1-3</td>
</tr>
<tr>
<td>MUSIC 127A</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 127B</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 129</td>
<td>1-2</td>
</tr>
<tr>
<td>MUSIC 130A</td>
<td>3</td>
</tr>
<tr>
<td>Or any course upon approval from Ear Training Advisor</td>
<td></td>
</tr>
</tbody>
</table>

- **Ear Training Exit Exam:** In conjunction with the music theory series, majors are required to pass an aural skills proficiency examination administered at the end of their junior year. This assesses the ability to transcribe, represent, and reproduce music vocally and at the keyboard, and must be passed before June of the senior year.

2. **History**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 40</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 41</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 42</td>
<td>4</td>
</tr>
</tbody>
</table>

3. **Analysis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 122A</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 122B</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 122C</td>
<td>4</td>
</tr>
</tbody>
</table>

4. **Writing in the Major (WIM)**

Select three courses, including at least two at the 4-unit level, as follows:

- **One course numbered 140, 141, or 142**
  - MUSIC 140: Studies in Music of the Middle Ages
  - Pre- or corequisites for WIM credit: MUSIC 21, MUSIC 40*
  - MUSIC 141: Studies in Music of the Renaissance
  - Pre- or corequisites for WIM credit: MUSIC 21, MUSIC 40*
  - MUSIC 142: Studies in Music of the Baroque
  - Pre- or corequisites for WIM credit: MUSIC 22, MUSIC 41*

- **One course numbered 143, 144, or 145**
  - MUSIC 143: Studies in Music of the Classical Period

5. **Applied**

- **A minimum of five quarters totaling 15 units of private instruction in instrumental and/or vocal performance (MUSIC 172/272-177/277).** Students who do not qualify for private instruction at the intermediate or advanced level, but who wish to pursue the major may take introductory voice (MUSIC 65A Voice Class I and MUSIC 73 Intermediate Voice Class), piano (MUSIC 12A Introductory Piano Class and MUSIC 72A Intermediate Piano Class), or guitar (MUSIC 74C Classical Guitar Class) to reach the minimum proficiency levels required to be accepted into a private studio and then complete their five quarters. Requirements for the minimum levels of proficiency in each instrument for private instruction are posted at: http://music.stanford.edu/ensembles-lessons/lessons.

   - **A minimum of five quarters totaling at least 5 units in one or more of the department’s performance organizations or chamber groups.** To fulfill the ensemble requirement, Music majors need at least three quarters of participation in the department’s traditional large ensembles (MUSIC 159–167), with the exception of students whose primary instrument is guitar, harp, or keyboard, who need to participate at least one quarter in the ensembles above, but who may fulfill the rest of the requirement with chamber music (MUSIC 171 Chamber Music). MUSIC 156 "sic": Improvisation Collective may count for up to two of the ensemble-unit requirements for the Music major.

**Note—The following courses do not satisfy this requirement:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>MUSIC 128</td>
<td>1-5</td>
</tr>
<tr>
<td>MUSIC 151B</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 160B</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 161D</td>
<td>1</td>
</tr>
</tbody>
</table>

**Concentration Requirements**

**A. Concentration in Performance**

In addition to the degree requirements for the general Music major described above, students in the Performance concentration must:

1. Complete at least 6 additional units for a letter grade in one area of performance. Acceptable courses are described under "Applied" in the section describing private instruction and ensemble course work above. Additional courses might include but are not limited to:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 126A</td>
<td>1-3</td>
</tr>
<tr>
<td>MUSIC 182</td>
<td>1</td>
</tr>
</tbody>
</table>
MUSIC 183A  German Art Song Interpretation  1
MUSIC 183B  French Art Song Interpretation  1
MUSIC 183E  Singing for Musicals  2
MUSIC 184A  Editing and Performing Early Music  1-3
MUSIC 184B  Topics in Opera Stagecraft  1-3
MUSIC 269  Research in Performance Practices  1-5

2. Register for an independent project (MUSIC 198 Concentrations Project, 4 units) in the senior year under faculty supervision, leading to a faculty adjudicated senior recital with a writing component. In preparation for their senior recital, students should refer to the Recitals-at-a-Glance planning page (https://sites.stanford.edu/music-dept/venues-spaces/reserve/recitals) for calendar links and reservation deadlines.

B. Concentration in Conducting
In addition to the degree requirements for the general Music major described above, students in the Conducting concentration must:

1. Complete at least 6 additional units for a letter grade in conducting. Additional courses might include, but are not limited to:

   - MUSIC 127A  Instrumentation and Orchestration  3
   - MUSIC 127B  Advanced Orchestration  3
   - MUSIC 130A  Introduction to Conducting  3
   - MUSIC 130B  Elementary Orchestral Conducting  3
   - MUSIC 130C  Elementary Choral Conducting  3
   - MUSIC 230  Advanced Orchestral Conducting  2-4
   - MUSIC 231  Advanced Choral Conducting  2-4

2. Register for an independent project (MUSIC 198 Concentrations Project, 4 units) in the senior year under faculty supervision, leading to a senior conducting project. In preparation for their senior recital, students should refer to the Recitals-at-a-Glance planning page (https://sites.stanford.edu/music-dept/venues-spaces/reserve/recitals) for calendar links and reservation deadlines.

C. Concentration in Composition
In addition to the degree requirements for the general Music major described above, students in the Composition concentration must:

1. Complete MUSIC 127A Instrumentation and Orchestration and at least 2 quarters of individual study in MUSIC 125 Individual Undergraduate Projects in Composition. These may count as 3 of the 5 quarters of required applied music classes for the major. (The remaining two quarters of applied music must be taken in an instrumental or vocal area, as defined in the requirements for the music major.)

2. Complete MUSIC 123A Undergraduate Seminar in Composition: Rhythmic Design and MUSIC 123B Undergraduate Seminar in Composition: Pitch Design.

3. Complete at least 4 additional units for a letter grade in composition. Additional courses might include, but are not limited to:

   - MUSIC 123C  Undergraduate Seminar in Composition: World Music  1
   - MUSIC 124B  Songwriters Workshop  3
   - MUSIC 127B  Advanced Orchestration  3
   - MUSIC 156  "sic": Improvisation Collective  1
   - MUSIC 192A  Foundations of Sound-Recording Technology  3
   - MUSIC 192B  Advanced Sound Recording Technology  3
   - MUSIC 192C  Session Recording  1-3

4. Register for an independent project (MUSIC 198 Concentrations Project, 4 units) in the senior year under faculty supervision, leading to a faculty-adjudicated composition project. In preparation for their senior recital, students should refer to the Recitals-at-a-Glance planning page (https://sites.stanford.edu/music-dept/venues-spaces/reserve/recitals) for calendar links and reservation deadlines.

D. Concentration in History, Theory, and Ethnomusicology
In addition to the degree requirements for the general Music major described above, students in the History, Theory, and Ethnomusicology concentration must:

1. Complete at least 6 additional units for a letter grade in history and theory. Additional courses might include, but are not limited to:

   Select any course not taken in fulfillment of the major requirement:

   - MUSIC 140: Studies in Music of the Middle Ages
   - MUSIC 141: Studies in Music of the Renaissance
   - MUSIC 142: Studies in Music of the Baroque
   - MUSIC 143: Studies in Music of the Classical Period
   - MUSIC 144: Studies in Music of the Romantic Period
   - MUSIC 145: Studies in Western Art Music Since 1900
   - MUSIC 146: Studies in Ethnomusicology
   - MUSIC 147: Studies in Music, Media, and Popular Culture
   - MUSIC 148: Studies in Performance Practice

2. Register for an independent project (MUSIC 198 Concentrations Project 4 units) in the senior year under faculty supervision, leading to a senior research paper.

E. Concentration in Music, Science, and Technology
Requires completion of 63 units. Some of these differ from the general Music major, and are delineated below. This field of study is designed for students interested in the musical ramifications of rapidly evolving computer technology and digital audio, and in the acoustic and psychoacoustic foundations of music. This program can serve as a complementary major to students in the sciences and engineering. Students in the program are required to fulfill the following requirements:

1. Theory and Analysis

   - MUSIC 21  Elements of Music I  3
   - MUSIC 22  Elements of Music II  3
   - MUSIC 23  Elements of Music III (includes passing the piano and ear-training proficiency examinations, as described for the major)  3
   - MUSIC 24A  Ear Training I  1
MUSIC 24B  Ear Training II  1
MUSIC 24C  Ear Training III  1
MUSIC 122B  Analysis of Tonal Music  4
MUSIC 150  Musical Acoustics  3
MUSIC 220A  Fundamentals of Computer-Generated Sound  4
MUSIC 220B  Compositional Algorithms, Psychoacoustics, and Computational Music  4
MUSIC 220C  Research Seminar in Computer-Generated Music  4
MUSIC 220D  Research in Computer-Generated Music  4
MUSIC 250A  Physical Interaction Design for Music  4
MUSIC 251  Psychophysics and Music Cognition  4

2. Piano Proficiency. Majors are required to pass a Piano Proficiency examination as part of the music theory core as described above in “Degree Requirements,” “Additional Music Theory Requirements.” Download additional information regarding the proficiency examination (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/music/pianoprofexaminfo.pdf).

3. Ear Training. In addition to the three ear training courses above, MST students are also required to take an elective course in ear training, and pass an aural skills proficiency examination at the end of the junior year. This examination tests the ability to accurately transcribe, represent, and reproduce music vocally and at the keyboard.

4. Applied
   • Individual studies in performance, MUSIC 172/272-177/277 (6 units) or MUSIC 192A Foundations of Sound-Recording Technology and MUSIC 192B Advanced Sound Recording Technology (6 units)
   • A minimum of five quarters totaling at least 5 units of work in one or more of the department’s performance organizations or chamber groups, or 5 units of MUSIC 192C Session Recording. To fulfill the ensemble requirement, Music majors need at least three quarters of participation in the department’s traditional large ensembles (MUSIC 159–167), with the exception of students whose primary instrument is harp, keyboard, or guitar, who need to participate at least one quarter in the ensembles above, but who may fulfill the rest of the requirement with chamber music (MUSIC 192C Session Recording). MUSIC 156 "sic": Improvisation Collective may count for up to two of the ensemble-unit requirements for the Music major.

5. History
   Select two of the following:
   MUSIC 40  Music History to 1600  4
   MUSIC 41  Music History 1600-1830  4
   MUSIC 42  Music History Since 1830  4

6. Research Project
   The program requires a senior research project (4 units) completed under faculty guidance. May be completed in conjunction with enrollment in any of the following:
   MUSIC 220D  Research in Computer-Generated Music  4
   MUSIC 198  Concentrations Project  4
   MUSIC 199  Independent Study  4

Overseas Study or Study Abroad
Courses in Music are often available at Stanford overseas programs, especially in Berlin, Paris, Florence, and Oxford. See the "Overseas Studies Program” section of this bulletin for this year’s listings. Music majors and minors should talk to the Department of Music undergraduate administrator prior to going overseas.

Joint Major Program in Music and Computer Science
The joint major program (JMP) was discontinued at the end of the academic year 2018-19. Students may no longer declare this program. All students with declared joint majors are permitted to complete their degree; faculty and departments are committed to providing the necessary advising support.

See the "Joint Major Program (http://exploredegrees.stanford.edu/undergraduateregistriesandprograms/#jointmajortext)” section of this bulletin for a description of University requirements for the JMP. See also the Undergraduate Advising and Research JMP (https://majors.stanford.edu/more-ways-explore/joint-majors-csx) web site and its associated FAQs.

Students completing the JMP receive a B.A.S. (Bachelor of Arts and Science).

Music Major Requirements in the Joint Major Program
Because the Joint Major Program is new and experimental, some changes to the following may occur. Questions concerning a concentration project in addition to the basic requirements for a Joint Major in Music and Computer Science should be directed to the Department of Music student services office in Braun Music Center, Room 101.

See the "Computer Science Joint Major Program (http://exploredegrees.stanford.edu/schoolofengineering/computerscience/#jointmajorprogramtext)” section of this bulletin for details on Computer Science requirements.

Students majoring in the joint major program in Computer Science and Music must complete the following:

1. Music Theory

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 21</td>
<td>Elements of Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 22</td>
<td>Elements of Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 23</td>
<td>Elements of Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 24A</td>
<td>Ear Training I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24B</td>
<td>Ear Training II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24C</td>
<td>Ear Training III</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Units 12

Students enrolled in 21, 22, or 23 must concurrently enroll in an ear-training and musicianship lab, MUSIC 24A, 24B, or 24C.

Additional Music Theory Requirements
   • Piano Proficiency: Majors are required to pass a piano proficiency examination as part of the music theory core (MUSIC 21 Elements of Music I, MUSIC 22 Elements of Music II, MUSIC 23 Elements of Music III). The examination is given in the first two weeks of MUSIC 21. Students who do not pass the piano proficiency examination are required to enroll in either MUSIC 12A Introductory Piano Class, MUSIC 12B Introductory Piano Class, or MUSIC 12C Introductory Piano Class concurrently with the music theory core until they are able to pass the examination. The examination consists of scales and arpeggios, performance of a simple tune to be set by the examiner, sight-reading, and the performance of prepared pieces. For additional information about this requirement, see Piano Proficiency Examination (http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/music/pianoprofexaminfo_0.pdf).
• **Ear Training Elective:** In addition to the theory requirements listed above, majors must successfully complete one unit of an ear training elective course from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 20B</td>
<td>Advanced Jazz Theory</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 65A</td>
<td>Voice Class I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 126A</td>
<td>Introduction to Thoroughbass</td>
<td>1-3</td>
</tr>
<tr>
<td>MUSIC 127A</td>
<td>Instrumentation and Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 127B</td>
<td>Advanced Orchestration</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 129</td>
<td>Advanced Ear-Training/Musicianship</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Or any course upon approval of the Ear Training adviser:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 130A</td>
<td>Introduction to Conducting</td>
<td>3</td>
</tr>
</tbody>
</table>

• **Ear Training Exit Exam:** In conjunction with the music theory series, majors are required to pass an aural skills proficiency examination administered at the end of their junior year. This assesses the ability to accurately transcribe, represent, and reproduce music vocally and at the keyboard, and must be passed before June of the senior year.

2. **Music History**

Select 2 of 3 from the list below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 40</td>
<td>Music History to 1600</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 41</td>
<td>Music History 1600-1830</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 42</td>
<td>Music History Since 1830</td>
<td>4</td>
</tr>
</tbody>
</table>

3. **Analysis**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 122B</td>
<td>Analysis of Tonal Music</td>
<td>4</td>
</tr>
</tbody>
</table>

4. **Computing and Music**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 220A</td>
<td>Fundamentals of Computer-Generated Sound</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 256A</td>
<td>Music, Computing, Design I: The Art of Design</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 8

5. **WIM**

One WIM-designated course must be taken for a minimum of 4 units. The course below is recommended, but can be replaced with any Music WIM course depending on student’s area of interest.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 251</td>
<td>Psychophysics and Music Cognition</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 4

6. **Electives**

Students must submit 12 unit elective course plan to the JMP faculty adviser for approval no later than the beginning of the junior year. MUSIC 220B and MUSIC 250A are recommended, but elective course plan can consist of any courses from list below, or other Music department course(s) with permission of adviser.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 122A</td>
<td>Counterpoint</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 122C</td>
<td>Introduction to 20th-Century Composition</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 128</td>
<td>Stanford Laptop Orchestra: Composition, Coding, and Performance</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 150</td>
<td>Musical Acoustics</td>
<td>3</td>
</tr>
</tbody>
</table>

7. **Applied Music**

Students may elect to take either of the following to fulfill the applied music requirement:

7.1 **Lesson and Ensemble Study**

- 6 units of individual studies in performance, MUSIC 172/272-177/277 and
- 5 quarters totaling 5 units of work in one or more of the department’s ensembles or chamber music groups. To fulfill the ensemble requirement, Music majors need at least three quarters of participation in the department’s traditional large ensembles (MUSIC 159-167) with the exception of students whose primary instrument is guitar, harp, or keyboard, who need to participate at least one quarter in the ensembles above, but who may fulfill the rest of the requirement with chamber music.

7.2 **Sound Recording**

- 1 quarter (3 units) of MUSIC 192A Foundations of Sound-Recording Technology
- 1 quarter (3 units) of MUSIC 192B Advanced Sound Recording Technology
- 5 units of MUSIC 192C Session Recording

8. **Capstone Project**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 220D</td>
<td>Research in Computer-Generated Music (3 units taken in conjunction with CS Capstone)</td>
<td>3</td>
</tr>
</tbody>
</table>

9. **Optional Concentrations**

Students who would also like to complete an additional capstone project in Performance, Conducting, Composition, Music History and Theory, or Music, Science, and Technology must consult the Department of Music student services office in Braun Music Center, Room 101 to submit a proposal for an optional concentration.

**Dropping a Joint Major Program**

To drop the joint major, students must submit the Declaration or Change of Undergraduate Major, Minor, Honors, or Degree Program (https://stanford.box.com/change-UG-program). Students may also consult the Student Services Center (http://studentservicescenter.stanford.edu) with questions concerning dropping the joint major.

**Transcript and Diploma**

Students completing a joint major graduate with a B.A.S. degree. The two majors are identified on one diploma separated by a hyphen. There will be a notation indicating that the student has completed a “Joint Major.” The two majors are identified on the transcript with a notation indicating that the student has completed a “Joint Major.”

**Minor in Music**

The Music minor allows students to explore music through a flexible program of study. The minor can focus on Composition, History, Music, Science & Technology (MST), Performance/Conducting, or Theory, or on areas not currently served by the major, such as Ethnomusicology, Jazz, or Musical Theater. The minor can also focus on musical aspects of a...
non-Music major such as American Studies, Anthropology, Area Studies, Computer Science, CSRE, TAPS, etc. Courses used to fulfill the minor may not be used to fulfill any other department degree requirements (major or minor).

**Minor Requirements — 24 units total for the minor**

Within the minimum 24-unit requirement:

1. All courses must be taken for a letter grade, except where letter grades are not offered.
2. 6 courses must be for 3 units each or more.
3. Students must complete at least 3 units of coursework in 3 of the following 5 areas:
   - Composition ([https://explorecourses.stanford.edu/search?view=catalog&filter-coursestatus-Active=on&page=0&catalog=&academicYear=&q=MUSIC%3A%3AUGComp&collapse=](https://explorecourses.stanford.edu/search?view=catalog&filter-coursestatus-Active=on&page=0&catalog=&academicYear=&q=MUSIC%3A%3AUGComp&collapse=))
   - History/Ethnomusicology ([https://explorecourses.stanford.edu/search?view=catalog&filter-coursestatus-Active=on&page=0&catalog=&academicYear=20192020&q=MUSIC%3A%3Aminormst&collapse=](https://explorecourses.stanford.edu/search?view=catalog&filter-coursestatus-Active=on&page=0&catalog=&academicYear=20192020&q=MUSIC%3A%3Aminormst&collapse=))
   - Theory ([https://explorecourses.stanford.edu/search?q=MUSIC%3A%3Aminormthecore&catalog=&academicYear=20192020&q=MUSIC%3A%3Aminormthecore&collapse=](https://explorecourses.stanford.edu/search?q=MUSIC%3A%3Aminormthecore&catalog=&academicYear=20192020&q=MUSIC%3A%3Aminormthecore&collapse=))

The elective units may be fulfilled in either breadth or depth in any area(s) desired, and may be selected from any of the Department of Music’s courses. Prospective minors are required to choose a faculty adviser and submit a course plan. Course plans and adviser agreement forms are available from the undergraduate student services officer.

The Department of Music has adopted the above requirements for students declaring the minor starting September 2019. Students who declared a Music minor prior to September 2019 should refer to previous guidelines and requirements for the minor below. If interested in changing to the new requirements, contact the undergraduate student services officer.

**Minor Requirements prior to September 2019**

The Music minor provides students with a core of essential Music courses in the disciplines that establish both a foundation for informed appreciation of music and a basis for more advanced study, should the student wish to pursue it. Two options are available for the minor: General Music and Music, Science, and Technology.

Total of 36 units required course work as delineated in each of the two options below, and passage of the piano proficiency and ear training examinations. To fulfill Music minor requirements, courses must be taken for a letter grade.

- **Piano Proficiency**: minors are required to pass a piano proficiency examination as part of the music theory core (MUSIC 21 Elements of Music I, MUSIC 22 Elements of Music II, MUSIC 23 Elements of Music III). The examination is given in the first two weeks of MUSIC 21. Students who do not pass the piano proficiency examination are required to enroll in either MUSIC 12A Introductory Piano Class, MUSIC 12B Introductory Piano Class, or MUSIC 12C Introductory Piano Class concurrently with the music theory core until they are able to pass the examination. The examination consists of scales and arpeggios, performance of a simple tune to be set by the examiner, sight-reading, and the performance of prepared pieces. Download additional information regarding the proficiency examination ([http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/music/pianoprofexaminfo_0.pdf](http://exploredegrees.stanford.edu/schoolofhumanitiesandsciences/music/pianoprofexaminfo_0.pdf)).
- **Ear Training Exit Exam**: in conjunction with the music theory series, minors are required to pass an aural skills proficiency examination administered at the end of their junior year. This examination tests the ability to accurately transcribe, represent, and reproduce music vocally and at the keyboard, and must be passed before June of the senior year.

### Required Courses: General Music

#### 1. Theory

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 21</td>
<td>Elements of Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 22</td>
<td>Elements of Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 23</td>
<td>Elements of Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 24A</td>
<td>Ear Training I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24B</td>
<td>Ear Training II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24C</td>
<td>Ear Training III</td>
<td>1</td>
</tr>
</tbody>
</table>

Students enrolled in 21, 22, or 23 must concurrently enroll in an ear-training and musicianship lab, MUSIC 24A, 24B, or 24C.

#### 2. History

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 40</td>
<td>Music History to 1600</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 41</td>
<td>Music History 1600-1830</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 42</td>
<td>Music History Since 1830</td>
<td>4</td>
</tr>
</tbody>
</table>

#### 3. Applied: Ensemble

- Two quarters, 2 units total.

#### 4. Applied: Individual

- Two quarters at 3 units per quarter, 6 units total.

#### 5. WIM, 4 units

4 units in any course numbered Music 140-149, except MUSIC 140G, or Music 251. Offerings in 2018-2019 include:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 142K</td>
<td>Studies in Music of the Baroque: Handel the Cosmopolitan</td>
<td>4-5</td>
</tr>
<tr>
<td>MUSIC 145K</td>
<td>Studies in Western Art Music Since 1900: Concepts of New Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 147K</td>
<td>Studies in Music, Media, and Popular Culture: Music and Urban Film</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 149J</td>
<td>Music, Interpretation, Meaning</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 251</td>
<td>Psychophysics and Music Cognition</td>
<td>4</td>
</tr>
</tbody>
</table>

### Required Courses: Music, Science and Technology

#### 1. Theory

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 21</td>
<td>Elements of Music I</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 22</td>
<td>Elements of Music II</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 23</td>
<td>Elements of Music III</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 24A</td>
<td>Ear Training I</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24B</td>
<td>Ear Training II</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 24C</td>
<td>Ear Training III</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 150</td>
<td>Musical Acoustics</td>
<td>3</td>
</tr>
</tbody>
</table>
Performance Certificate Program for Non Music Majors

As a locus of great academic and artistic depth and diversity, the Department of Music's performance programs have long engaged students who, even though they are not music majors, are serious and dedicated to furthering their skills in music performance. The Certificate in Music Performance program provides a select cohort of these students the opportunity for further recognition of their artistic achievement.

This program is open by audition to undergraduate students who already demonstrate a high degree of accomplishment in their area of music performance, study privately with one of the Department of Music's faculty, and who wish to bolster their performance studies with coursework that may be drawn from the Department of Music's other areas of academic focus: history, theory, computer music, and composition. The Certificate in Music Performance is issued by the Department of Music and will not appear on any University record, including the student's transcript.

Admission

Students are admitted to the Certificate in Music Performance program based on an audition adjudicated by Department of Music faculty at the beginning of Winter Quarter. To request an audition, the student should speak with the private lesson instructor and the Department of Music's undergraduate student services officer. Email ugmusicinquiries@lists.stanford.edu for additional information. At the time of the audition, students must have already declared a major outside of music.

Requirements

Once admitted into the program, students must complete a course plan to be approved by department faculty based on the requirements below.

1. Performance

- A minimum of six quarters of individual lessons of private instruction and/or vocal performance (MUSIC 172/272-177/277). Any quarters of instruction taken prior to admission into the program may also count towards these requirements. Requirements for the minimum levels of proficiency in each instrument for private instruction are posted on the department’s web site (https://music.stanford.edu/ensembles-lessons/lessons). All six quarters of lesson study must be in the same instrument area.

- A minimum of six quarters of ensemble experience in the Department of Music’s ensembles and chamber groups. For students whose primary instrument area is guitar, keyboard or harp, at least one quarter of ensemble experience must be in one of the department’s traditional large ensembles (MUSIC 159-167, MUSIC 184). The remaining ensemble requirements may be filled with chamber music (MUSIC 171). Keyboard students may also take MUSIC 171 Chamber Music, MUSIC 171 Chamber Music, and MUSIC 171 Chamber Music to fulfill this requirement. All non-keyboard, guitar or harp students must successfully complete three quarters in the department’s traditional large ensembles (MUSIC 159-167, MUSIC 184), and three quarters in conductor-less, small ensembles such as chamber music or jazz combos MUSIC 171 Chamber Music. MUSIC 156 "sic": Improvisation Collective may count for up to two of the ensemble unit requirements. Any quarters of ensemble taken prior to admission into the program may also count towards these requirements.

2. Applied

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 192A</td>
<td>Foundations of Sound-Recording Technology</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 192B</td>
<td>Advanced Sound Recording Technology</td>
<td>3</td>
</tr>
<tr>
<td>MUSIC 192C</td>
<td>Session Recording (two quarters, 3 units total)</td>
<td>1-2</td>
</tr>
</tbody>
</table>

Alternatively, students pursuing the MST minor may elect to fulfill the applied music requirement with ensemble units and individual lessons as described in the Applied requirements for the General Music minor above.

3. Elective Courses

Six or more total units in Music, dependent upon course plan document submitted following acceptance into the program.

4. Final Project

To complete the Performance Certificate, students must enroll in a 4-unit MUSIC 199 Independent Study or 4-unit MUSIC 198 Concentrations Project and complete a final, performance-based capstone project. Students must pass faculty adjudication, and, in addition, complete a writing project (essay or program notes) pre-approved by the lesson instructor. Students should refer to the Department of Music website’s Recitals-at-a-Glance (https://sites.stanford.edu/music-dept/venues-spaces/reserve/recitals) page for reservation deadlines and calendar links.

Master of Arts in Music

University requirements for the M.A. are described in the "Graduate Degrees (http://exploredegrees.stanford.edu/graduatedegrees)" section of this bulletin.

None of Stanford’s required undergraduate courses may be credited toward an advanced degree unless specifically required for both degrees. Graduate credit in Music that is recognized as fulfilling the advanced-degree requirements is awarded only in courses numbered 100 or higher taken for a letter grade, and only for work that receives a grade of ‘A’, ‘B,’ or ‘Satisfactory’ (a passing grade in an instructor-mandated credit/no credit course). Courses numbered 100 or higher taken as electives in other departments may be taken for credit or letter grade. Students may need to devote more than the minimum time in residence if preparation for graduate study is inadequate.

Admission

Applicants are required to submit evidence of accomplishment (scores, recordings, and/or research papers) when they complete the application form. Applicants should arrange to take the Graduate Record Examination (GRE) well in advance of the second Tuesday in December application deadline. [N.B. GRE scores are required of all Coterminal applicants to the Master’s program in Music, Science, and Technology.] All components of the application are due by the second Tuesday in December. International students whose first language is not English
are also required to take the TOEFL exam (with certain exceptions: see the Office of Graduate Admissions (http://studentaffairs.stanford.edu/gradadmissions) website.

**Degree Options**

All of the following fields of study are declarable as subplans in Axess via the “Declaration or Change to a Field of Study” form; they appear on the transcript and the diploma:

- Master of Arts degree (M.A.) in Music—Composition subplan.
- Master of Arts degree (M.A.) in Music—Music History subplan.
- Master of Arts degree (M.A.) in Music—Computer-Based Music Theory and Acoustics subplan.
- Master of Arts degree (M.A.) in Music—Computer-Based Music Theory and Acoustics subplan.

- Note: The M.A./M.S.T. program is the only terminal master’s degree; it is two years in duration. It is is available to current Stanford undergraduates as a coterminal MA, current Stanford graduates, and external applicants.

**Degree Requirements**

A minimum of 45 academic units is required for the master’s degree in Music. The Department of Music does not accept students for study only towards the M.A. degree except in the Music, Science, and Technology program, described below.

1. **Composition**
   
   Students are not admitted into the M.A. as a terminal degree for composition: rather, students in the D.M.A. program in composition who enter directly from the bachelor’s level may, upon completing 45 graduate-level units and advancing to candidacy by passing the qualifying examination, be recommended for the M.A. degree in composition.

2. **Music History**
   
   Students are not admitted into the M.A. as a terminal degree for music history: rather, students in the Ph.D. program in musicology who enter directly from the bachelor’s level may, upon completing 45 graduate-level units and advancing to candidacy by passing the qualifying examination, be recommended for the M.A. degree in music history.

3. **Computer-Based Music Theory and Acoustics**
   
   Students are not admitted into the M.A. as a terminal degree for computer-based music theory and acoustics: rather, students in the Ph.D. program in computer-based music theory and acoustics who enter directly from the bachelor’s level may, upon completing 45 graduate-level units and advancing to candidacy by passing the qualifying examination, be recommended for the M.A. degree in computer-based music theory and acoustics.

4. **Music, Science, and Technology (M.S.T.)**
   
   The M.A. in Music, Science, and Technology is the department’s only terminal master’s degree. This is a two-year program of 45 graduate-level units focusing on the integration of music perception, music-related signal processing and controllers, synthesis, performance, and composition. The program is designed for students who have an undergraduate music, engineering, or science degree.

   **Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 201</td>
<td>CCRMA Colloquium</td>
</tr>
<tr>
<td>MUSIC 220A</td>
<td>Fundamentals of Computer-Generated Sound</td>
</tr>
<tr>
<td>MUSIC 251</td>
<td>Psychophysics and Music Cognition</td>
</tr>
<tr>
<td>MUSIC 256A</td>
<td>Music, Computing, Design I: The Art of Design</td>
</tr>
</tbody>
</table>

**University Coterminal Requirements**

Coterminal master’s degree candidates are expected to complete all master’s degree requirements as described in this bulletin. University requirements for the coterminal master’s degree are described in the “Coterminal Master’s Program” (http://exploredegrees.stanford.edu/cotermdegrees) section. University requirements for the master’s degree are described in the “Graduate Degrees” (http://exploredegrees.stanford.edu/graduatedegrees/#masterstext) section of this bulletin.

After accepting admission to this coterminal master’s degree program, students may request transfer of courses from the undergraduate to the graduate career to satisfy requirements for the master’s degree. Transfer of courses to the graduate career requires review and approval of both the undergraduate and graduate programs on a case by case basis.

In this master’s program, courses taken during or after the first quarter of the sophomore year are eligible for consideration for transfer to the graduate career; the timing of the first quarter is not a factor. No courses taken prior to the first quarter of the sophomore year may be used to meet master’s degree requirements.

Course transfers are not possible after the bachelor’s degree has been conferred.

The University requires that the graduate adviser be assigned in the student’s first graduate quarter even though the undergraduate career may still be open. The University also requires that the Master’s Degree Program Proposal be completed by the student and approved by the department by the end of the student’s first graduate quarter.

Required course work is listed above. A complete program with an individually-tailed list of electives will be formed in consultation with the student’s advisor.

**Doctor of Musical Arts (D.M.A.) and Doctor of Philosophy (Ph.D.) in Music**

University requirements for the D.M.A and Ph.D. are described in the “Graduate Degrees” section of this bulletin. The following statements apply to all the graduate degrees described below, unless otherwise indicated.

**Admission**

Applicants are required to submit evidence of accomplishment (scores, recordings, and/or research papers, according to the proposed field of concentration) when they complete the application form. Applicants to the Ph.D. programs should arrange to take the Graduate Record Examination (GRE) well in advance of the application deadline of the second Tuesday in December. [Note that D.M.A. applicants are not required to provide GRE scores.] All components of the application are due by the second Tuesday in December. International students whose first language is not English are also required to take the TOEFL exam (with certain exceptions: see the Office of Graduate Admissions (http://studentaffairs.stanford.edu/gradadmissions) website.)
Department Examinations
All entering doctoral graduate students are required to take:

1. a diagnostic examination testing the student in theory (counterpoint, harmony, and analysis), a proficiency examination in sight-singing; and
2. for musicologists and composers only, a proficiency examination in piano sight-reading; and
3. for musicologists only, the history of Western art music.

These exams are given the week before classes begin in September each year. Teaching Assistant assignments and the funding associated with this portion of a graduate student’s financial aid package are determined based upon successful completion of these exams.

Graduate Credit
None of Stanford’s required undergraduate courses may be credited toward an advanced degree unless specifically required for both degrees. Only work that receives a grade of ‘A,’ ‘B,’ or ‘S’ (a passing grade in an instructor-mandated credit/no credit course) in music courses numbered 100 or higher taken as a graduate student is recognized as fulfilling the advanced-degree requirements. Students may need to devote more than the minimum time in residence if preparation for graduate study is inadequate.

The following may be taken as electives for graduate credit:

1. any course in another department numbered 100 or over (with adviser’s consent)
2. any course in the Music department numbered 100 or over except those required for the B.A. degree. A letter grade of ‘A,’ ‘B,’ or ‘S’ (a passing grade in an instructor-mandated credit/no credit course) is required.
3. Music department group instruction (enroll in MUSIC 199 Independent Study after speaking with instructor):

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 72A</td>
<td>1</td>
<td>Intermediate Piano Class</td>
</tr>
<tr>
<td>MUSIC 72C</td>
<td>1</td>
<td>Harpsichord Class</td>
</tr>
<tr>
<td>MUSIC 72D</td>
<td>1</td>
<td>Jazz Piano Class</td>
</tr>
<tr>
<td>MUSIC 73</td>
<td>1</td>
<td>Intermediate Voice Class</td>
</tr>
<tr>
<td>MUSIC 74C</td>
<td>1</td>
<td>Classical Guitar Class</td>
</tr>
<tr>
<td>MUSIC 74D</td>
<td>1</td>
<td>Harp Class</td>
</tr>
<tr>
<td>MUSIC 75B</td>
<td>1</td>
<td>Renaissance Wind Instruments Class</td>
</tr>
<tr>
<td>MUSIC 76</td>
<td>1</td>
<td>Brass Instruments Class</td>
</tr>
<tr>
<td>MUSIC 77</td>
<td>1</td>
<td>Percussion Class</td>
</tr>
</tbody>
</table>

Degree Options
All of the following fields of study are declarable as subplans in Axess via the “Declaration or Change to a Field of Study for Graduate Students” form; they appear on the transcript and the diploma:

- **Doctor of Musical Arts degree (D.M.A.) in Composition**
  The D.M.A. is offered to a limited number of students who demonstrate substantial training in the field and high promise of attainment as composers. Students may work in acoustic and/or electronic forms. Breadth is given through studies in other branches of music and in relevant fields outside music, as desirable. The final project for this degree is a large-scale composition.

- **Doctor of Philosophy degree (Ph.D.) in Musicology**

- **Doctor of Philosophy degree (Ph.D.) in Computer-Based Music Theory and Acoustics**
  The Ph.D. is offered in areas of the research of Stanford’s graduate faculty: Musicology, and Computer-Based Music Theory and Acoustics (CBMTA) at the Center for Computer Research in Music and Acoustics (CCRMA). The department seeks students who demonstrate substantial scholarship, high promise of attainment, and the ability to do independent investigation and present the results of such research in a dissertation.

Degree Requirements
Residence
The candidate must complete a minimum of 135 academic units (see Residency under the Graduate Degrees (http://exploredegrees.stanford.edu/graduatedegrees) section of this bulletin). Doctoral candidates working on Ph.D. dissertations or Doctor of Musical Arts (D.M.A.) final projects that require consultation with faculty members continue enrollment in the University under Terminal Graduate Registration (TGR), after they have reached the required 135 academic units and have completed their Special Area Examinations.

Qualifying Examination
A written and oral examination given just prior to the fourth quarter of residence for D.M.A. students and Ph.D. students in the Computer-Based Music Theory and Acoustics programs; for Ph.D. students in Musicology, the exams are given just prior to the eighth quarter of residence. For D.M.A. students a Special Area Examination topic proposal is due at the time of the Qualifying Examination.

Admission to Candidacy
Upon successful completion of the Qualifying Examination and 45 units of graduate level work, faculty consider the student’s overall progress and academic achievement and determines if the student has the potential to successfully complete the requirements of the degree program. If a student’s progress and potential are deemed sufficient to continue in the degree program, the student is directed to complete the Application for Candidacy for Doctoral Degree (http://studentaffairs.stanford.edu/sites/default/files/registrar/files/appcanddcto.pdf). Failure to advance to candidacy will result in the dismissal of the student from the program.

Teaching
All students in the Ph.D. or D.M.A. degree programs, regardless of sources of financial support, are required to complete six quarters of supervised teaching (Teaching Assistantship) at half time. MUSIC 280 TA Training Course (offered in Spring Quarter and taken at the end of the first year) is a required course for Teaching Assistants. Additional quarters of teaching may be offered by the department. Teaching Assistants are required to be present on campus during ten weeks of teaching and until their duties in exam week are fulfilled. Short absences related to professional development that do not extend beyond one week over the whole quarter need to be agreed upon with the course faculty at least one month prior. Absences during midterms and finals are not acceptable.

I. Composition
The Doctor of Musical Arts (D.M.A.) degree in Composition is given breadth through collateral studies in other branches of music and in relevant studies outside music as seems desirable. In addition to degree requirements required of all doctoral graduate students and listed above, students must complete the following required courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 280</td>
<td>1</td>
<td>TA Training Course</td>
</tr>
<tr>
<td>MUSIC 305C</td>
<td>4</td>
<td>Analysis and Repertoire: Late-Romantic to Contemporary</td>
</tr>
<tr>
<td>MUSIC 305D</td>
<td>4</td>
<td>Analysis from a Compositional Perspective</td>
</tr>
<tr>
<td>MUSIC 323</td>
<td>3-4</td>
<td>Doctoral Seminar in Composition (6 quarters during the first 3 years of study)</td>
</tr>
<tr>
<td>MUSIC 324</td>
<td>1</td>
<td>Graduate Composition Forum</td>
</tr>
</tbody>
</table>
One elective course from the Ph.D. CBMTA curricula chosen from the following:

- MUSIC 251 Psychophysics and Music Cognition
- MUSIC 255 Intermedia Workshop
- MUSIC 256A Music, Computing, Design I: The Art of Design

* The requirement is for all nine quarters during years 1, 2 & 3, and 3 quarters during years 4-5 with no three consecutive quarters un-enrolled.

† Two or more quarters per year are required until advancement to candidacy; by the end of the second year the student shall have enrolled with a minimum of two different faculty members; but the end of the third year the student shall have enrolled with a minimum of three different faculty.

1. Besides those requirements listed above, candidates are expected to produce a number of works demonstrating their ability to compose in a variety of forms and for the common media: vocal, instrumental, and electronic music. If possible, the works submitted are presented in public performance prepared by the composer. Annual progress is reviewed by the composition faculty with a major portfolio review conducted during the Fall Quarter of the third year.

2. **Foreign Language Requirement**—At the time of advancement to candidacy, all D.M.A. students are required to have demonstrated a reading knowledge of one language other than English and the ability to translate it into idiomatic English.

3. **Special-Area Examination**—A written examination in the candidate’s field of concentration, one-hour presentation followed by questions in MUSIC 324 Graduate Composition Forum, sample course syllabus, and final project proposal are required to be completed during the Winter Quarter of the fourth year of study, no later than the ninth week of classes.

4. **Final Project Presentation**—Required during the last quarter of residence, no later than the ninth week of classes, the purpose of the presentation is to demonstrate the ability of the candidate to organize and present the topic of the final project for public review. It should be one hour in length, followed by questions, treating aspects of the final project. Details regarding the D.M.A. final project presentation may be found in the Department of Music Graduate Handbook.

5. **Final Project**—Candidate’s work culminates in a required Final Project. The final project in composition must be a substantial composition, the scope of which shall be agreed upon by the members of the committee. Typically, work on the final project encompasses several quarters. Usually, smaller works, for specific performances, are composed at the same time.

6. **Reading Committee**—The membership of the reading committee is the principal final project adviser and a minimum of two additional members. The notice of appointment of a D.M.A. Final Project Reading Committee should be submitted to the department at the same time as the approved final project proposal and the completion of the Special Area Exam. It is the responsibility of the student, with the advice of his or her adviser, to approach appropriate faculty members and obtain their consent to serve on the reading committee. Download the D.M.A. reading committee form (https://stanford.box.com/v/MusicDMAReadingCommitteeForm), fill it out; obtain committee members’ signatures; return to the graduate administrator.

7. The Stanford composition faculty consider it a virtue to be deeply engaged in the campus goings-on of the composition community. This includes engagement with new music by faculty and fellow students, and participation in critical discourse.

The stipend recognizes strong commitment to and immediate presence within the community, as well as commitment to the teaching requirement. Should a student need to miss a milestone event of a colleague (Portfolio Review, Area Exam Presentation, Final Project Presentation) they are expected to provide an explanation in advance by writing to the entire composition faculty and the presenting classmate; this includes those living off campus during a leave.

8. Students are required to stay in residence for the whole duration of their studies. In exceptional circumstances, when specific research activities would warrant this, single-quarter, research-related leaves can be requested by the students after they have reached the required 135 academic units and require approval of all members of the composition faculty.

### II. Musicology

In addition to degree requirements required of all doctoral graduate students and listed above, students must complete the following required courses:

<table>
<thead>
<tr>
<th>Units</th>
<th>Required Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-4</td>
<td>MUSIC 200A Proseminar in Musicology and Music Bibliography (required of all entering students)</td>
</tr>
<tr>
<td>3-5</td>
<td>MUSIC 200B Proseminar in Ethnomusicology</td>
</tr>
<tr>
<td>1</td>
<td>MUSIC 280 TA Training Course</td>
</tr>
<tr>
<td>3-4</td>
<td>MUSIC 300A Medieval Notation</td>
</tr>
<tr>
<td>4</td>
<td>MUSIC 300B Renaissance Notation</td>
</tr>
<tr>
<td>4</td>
<td>MUSIC 305A Analysis and Repertoire: Medieval and Renaissance</td>
</tr>
<tr>
<td>4</td>
<td>MUSIC 305B Analysis and Repertoire: Baroque to Early Romantic</td>
</tr>
<tr>
<td>4</td>
<td>MUSIC 305C Analysis and Repertoire: Late-Romantic to Contemporary</td>
</tr>
<tr>
<td>3-5</td>
<td>MUSIC 310 Research Seminar in Musicology</td>
</tr>
<tr>
<td>4</td>
<td>MUSIC 312A Aesthetics and Criticism of Music, Ancients and Moderns: Plato to Nietzsche</td>
</tr>
<tr>
<td>4</td>
<td>MUSIC 312B Aesthetics and Criticism of Music, Contemporaries: Heidegger to Today</td>
</tr>
<tr>
<td>1</td>
<td>MUSIC 330 Musicology Dissertation Colloquium</td>
</tr>
</tbody>
</table>

One elective course from the D.M.A. Composition or Ph.D. CBMTA curricula chosen from the following (or other, by instructor and advisor consent):

- MUSIC 220A Fundamentals of Computer-Generated Sound
- MUSIC 251 Psychophysics and Music Cognition
- MUSIC 253 Symbolic Musical Information
- MUSIC 254 Music Query, Analysis, and Style Simulation
- MUSIC 323 Doctoral Seminar in Composition
- MUSIC 324 Graduate Composition Forum

* The requirement is for eight seminars of 3-5 units each. Up to two graduate seminars in other departments may be counted toward this requirement, pending adviser’s approval.

† The requirement is for enrollment each quarter offered beginning in year four and continuing to graduation.

1. **Foreign Language Requirement**—At the time of advancement to candidacy, all Ph.D. students in Musicology must have passed a Ph.D. Language examination in German and in a second language, chosen from French, Italian, or Latin (or, on a case-by-case basis, another language, if it has significant bearing on the candidate’s field
of study). If one of these languages is the student’s native language, the student may be exempted from an examination.

2. Special-Area Examination—A written and oral examination testing the student’s knowledge of music and research in the student’s field of concentration is completed during the fourth year of study, no later than the last day of classes in Autumn Quarter of that year. This includes an oral defense of the dissertation proposal. The examining committee comprises prospective readers of the dissertation.

3. University Oral Examination—Taken once the dissertation is substantially under way; an oral presentation is a defense of dissertation research methods and results.

4. Dissertation—After the first two years of graduate study, the student concentrates on research and writing of the dissertation. The dissertation demonstrates the student’s ability to work systematically and independently to produce an essay of competent scholarship.

5. Reading Committee—The minimum membership of the reading committee is 1) the principal dissertation adviser, 2) a second member from the department, and 3) a third member from the major department or another department. A non-Academic Council member (including former Academic Council members) may replace only one of the three required members of dissertation reading committees. If the reading committee has four or five members, at least three members (comprising the majority) must be current or emeritus members of the Academic Council. See the GAP for additional information: http://gap.stanford.edu/4-8.html. The notice of appointment of a Reading Committee should be submitted to the department at the same time as the approved dissertation proposal and the completion of the Special-Area Exam. It is the responsibility of the student, with the advice of his or her adviser, to approach appropriate faculty members and obtain their consent to serve on the reading committee.

### III. Computer-Based Music Theory and Acoustics

In addition to degree requirements required of all doctoral graduate students and listed above, students must complete the following required courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSIC 220A</td>
<td>Fundamentals of Computer-Generated Sound</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 220B</td>
<td>Compositional Algorithms, Psychoacoustics, and Computational Music</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 220C</td>
<td>Research Seminar in Computer-Generated Music</td>
<td>2-4</td>
</tr>
<tr>
<td>MUSIC 220D</td>
<td>Research in Computer-Generated Music</td>
<td>1-10</td>
</tr>
<tr>
<td>MUSIC 251</td>
<td>Psychophysics and Music Cognition</td>
<td>1-5</td>
</tr>
<tr>
<td>MUSIC 280</td>
<td>TA Training Course</td>
<td>1</td>
</tr>
<tr>
<td>MUSIC 305C</td>
<td>Analysis and Repertoire: Late-Romantic to Contemporary</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 305D</td>
<td>Analysis from a Compositional Perspective</td>
<td>4</td>
</tr>
<tr>
<td>MUSIC 320</td>
<td>Introduction to Audio Signal Processing</td>
<td>2-4</td>
</tr>
</tbody>
</table>

1. Recommend taking in first year
2. The requirement is for 12 units.
3. Must take in first year

1. **Foreign Language Requirement**—At the time of advancement to candidacy, all Ph.D. students in computer-based music theory and acoustics are required to have demonstrated a reading knowledge of one language other than English and the ability to translate it into idiomatic English.

2. **Special-Area Examination**—A written and oral examination testing the student’s knowledge of music and research in the student’s field of concentration is completed during the fourth year of study, no later than the last day of classes in Autumn Quarter of that year. This includes an oral defense of the dissertation proposal. The examining committee comprises prospective readers of the dissertation.

3. **University Oral Examination**—Taken once the dissertation is substantially under way; an oral presentation is a defense of dissertation research methods and results.

4. **Dissertation**—After the first two years of graduate study, the student concentrates on research and writing of the dissertation. The dissertation demonstrates the student’s ability to work systematically and independently to produce an essay of competent scholarship.

5. **Reading Committee**—The minimum membership of the reading committee is 1) the principal dissertation adviser, 2) a second member from the department, and 3) a third member from the major department or another department. If a second member is from another institution, a fourth member must be appointed from the department. The principal dissertation adviser and all other members of the committee must belong to the Academic Council. The notice of appointment of a Reading Committee should be submitted to the department at the same time as the approved dissertation proposal and the completion of the Special-Area Exam. It is the responsibility of the student, with the advice of his or her adviser, to approach appropriate faculty members and obtain their consent to serve on the reading committee.

### COVID-19 Policy Changes to Degree Requirements

**On this page:** Winter Quarter (p. 11) • Spring Quarter (p. 12) • Doctoral Programs (p. 12) (if applicable)

For a complete overview of academic policy changes related to the COVID-19 pandemic, see the “COVID-19 and Academic Continuity (http://exploredegrees.stanford.edu/covid-19-policy-changes)" section of this bulletin.”

In response to the COVID-19 pandemic in 2020, Stanford University made a number of emergency changes to policies and procedures that impacted Winter and Spring quarters 2019-20. Those changes, as they relate to degree programs, are compiled on this page. These changes reflect the disruption that students and instructors experienced when the University transitioned to online learning on March 9, 2020, in addition to the disruption to the Stanford community caused by the pandemic itself.

### Winter Quarter 2019-20

- University-wide Winter Quarter Academic Changes (http://exploredegrees.stanford.edu/covid-19-policy-changes/#winterquarteracademicchangestext)

The Committee on Undergraduate Standards and Policy (C-USP) and the Committee on Graduate Studies (C-GS) approved an exception for Winter Quarter 2019-20 to permit students to request late class withdrawals and/or changes to class grading basis to CR/NC (for those classes that had CR/NC as an option).

### Undergraduate Degree Requirements

#### Grading Requirements

The Department of Music did not make any changes to undergraduate degree grade requirements for classes taken in Winter Quarter 2019-20.

### Other Requirements

If a student has difficulty completing an undergraduate degree requirement due to the COVID-19 pandemic, e.g., a study abroad requirement, a laboratory research requirement, the student should consult with the Student Services Officer to identify academic options to fulfill degree requirements.
Graduate Degree Requirements

Grading Requirements
The Department of Music did not make any changes to graduate degree grade requirements for classes taken in Winter Quarter 2019-20.

Other Requirements
If a student has difficulty completing a graduate degree requirement due to the COVID-19 pandemic, (e.g., a study abroad requirement, a laboratory research requirement), the student should consult with the Student Services Officer to identify academic options to fulfill degree requirements.

Undergraduate Degree Requirements

Grading Requirements
The Department of Music counts any Spring Quarter 2019-20 class in which the student received a final grade of ‘S’ towards undergraduate degree requirements that otherwise require a letter grade.

Other Requirements
If a student has difficulty completing an undergraduate degree requirement due to the COVID-19 pandemic, (e.g., a study abroad requirement, a laboratory research requirement), the student should consult with the Student Services Officer to identify academic options to fulfill degree requirements. Creative Writing minors should consult with the Program Manager.

Graduate Advising Requirements

Grading Requirements
The Department of Music counts any Spring Quarter 2019-20 class in which the student received a final grade of ‘S’ towards graduate degree requirements that otherwise require a letter grade.

Other Requirements
If a student has difficulty completing a graduate degree requirement due to the COVID-19 pandemic, (e.g., a study abroad requirement, a laboratory research requirement), the student should consult with the Student Services Officer to identify academic options to fulfill degree requirements.

Doctoral Programs

The Faculty Senate confirmed that doctoral programs have discretion to delay candidacy decisions through the end of Autumn Quarter 2020-21. It also confirmed that students have the option to defer the candidacy process (e.g., qualifying exams) to Autumn Quarter 2020-21 without penalty.

The Department of Music has postponed doctoral candidacy reviews to occur following completion of the Qualifying Exam.

D.M.A Program
Qualifying exams typically completed in Autumn Quarter 2020-21 will now be administered in Winter Quarter 2020-21. Students may request to take the exam as originally scheduled, should they wish to do so. Students should notify the Graduate Student Services Officer of their decision by September 1, 2020.

Ph.D. Program (CCRMA)
Students have the option of completing qualifying exams in either Autumn Quarter 2020-21 or in Winter Quarter 2020-21. Students should inform the Graduate Student Services Officer of their decision by September 1, 2020.

Ph.D. Program (Musicology)
Qualifying exams will be administered in Summer Quarter 2019-20. Students should inform the Graduate Student Services Officer of their decision by September 1, 2020.

Special Area Exam
Students may petition the Graduate Studies Committee to request postponement of their Special Area Exam. Prior to doing so, they should first consult with their faculty advisor. If the petition is approved, a one quarter extension will be provided.

Graduate Advising Expectations
The Department of Music is committed to providing academic advising in support of graduate student scholarly and professional development. When most effective, this advising relationship entails collaborative and sustained engagement by both the adviser and the advisee. As a best practice, advising expectations should be periodically discussed and reviewed to ensure mutual understanding. Both the adviser and the advisee are expected to maintain professionalism and integrity.

Faculty advisers guide students in key areas such as selecting courses, designing and conducting research, developing of teaching pedagogy, navigating policies and degree requirements, and exploring academic opportunities and professional pathways.

The faculty program adviser is the primary source of information for the duration of a student’s graduate career. Program adviser assignments are made based on perceived best fit at the time of acceptance to a degree program. Only Academic Council Teaching Faculty (“ACTFac” – any tenure-track faculty, i.e., Assistant, Associate, and full Professors), are eligible to serve as graduate program advisers; however, non-ACTFac instructors may serve as co-advisors in conjunction with an ACTFac instructor. See the faculty listing on the Music website (https://music.stanford.edu/people/faculty).

Graduate students are active contributors to the advising relationship, proactively seeking academic and professional guidance and taking responsibility for informing themselves of policies and degree requirements for their graduate program. Graduate students are encouraged to meet with their program adviser at least once each quarter, and are actively encouraged to communicate frequently with their advisers. It is valuable to set clear mutual expectations for the advising process, and to revisit those expectations periodically. While developing a proposal for the Ph.D. dissertation or DMA final project, the student should invite a reading committee in consultation with the program adviser and other relevant faculty.

At the start of graduate study, each student is assigned a program adviser. Should you feel it necessary to change advisers, the following procedure should be followed:

1. Discuss this with your current adviser. With their permission,
2. Solicit agreement from your proposed new adviser.
3. Email the Graduate Student Services Officer with a notification of this change; cc both your old and new advisers.

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If there are problems with the advising relationship, please contact the Department Chair or the Graduate Student Services Officer.

**Advising Expectations for Ph.D. Students**

A student should be an active advisee and should not wait for your adviser to email. Students should arrange for meetings to discuss coursework, summer plans, quals preparation, language study, and, later, the dissertation topic, fellowship applications, and other aspects of professional development. Students should prepare for these meetings carefully, recognizing that the adviser's time is limited.

**Advising Expectations for Master of Art in Music (M.S.T.) Students**

The same expectations guiding the doctoral advisees guide advising relationships for master's students as well.

**Stanford Advising Documents and Resources**

The Office of the Vice Provost for Graduate Education (VPGE [http://vpge.stanford.edu](http://vpge.stanford.edu)) works collaboratively with Stanford's schools and departments to enhance the quality of graduate education at Stanford University. Among the many resources at their site is a set of graduate advising resources ([https://vpge.stanford.edu/academic-guidance/advising-mentoring](https://vpge.stanford.edu/academic-guidance/advising-mentoring)).


For a statement of University policy on graduate advising, see the "Graduate Advising ([http://exploredegrees.stanford.edu/graduatedegrees/#advisingandcredentialstext](http://exploredegrees.stanford.edu/graduatedegrees/#advisingandcredentialstext))" section of this bulletin.

**Emeriti:** (Professors) Karol Berger, John M. Chowning, Albert Cohen, Brian Ferneyhough, William H. Ramsey; (Professors, Performance) Arthur P. Barnes, Marie Gibson

**Chair:** Jaroslaw Kapuscinski

**Director of Graduate Studies:** Heather Hadlock (with Patricia Alessandrini, Denise Gill, and Takako Fujioka)

**Director of Undergraduate Studies:** Charles Kronengold

**Professors:** Mark Applebaum (on leave), Jonathan Berger, Chris Chafe (on leave), Thomas Grey, Stephen Hinton, Julius O. Smith (on leave Autumn)

**Associate Professors:** Takako Fujioka, Heather Hadlock, Jaroslaw Kapuscinski, William P. Mahrt, Jesse Rodin, Ge Wang

**Assistant Professors:** Patricia Alessandrini, Denise Gill, Charles Kronengold

**Professors (Teaching):** George Barth (Piano), Stephen M. Sano (Director of Choral Studies)

**Associate Professor (Teaching):** Paul Phillips (Director of Orchestral Studies)

**Courtesy Professors:** Paul DeMarinis, Doug L. James

**Senior Lecturers:** Giancarlo Aquilanti (Director of Theory; Wind Ensemble), Talya Berger (Theory), Laura Dahl (Resident Collaborative Pianist), Stephen Harrison (Cello), François Rose (Theory and Composition), Thomas Schultz (Piano), Gregory A. Wait (Voice; Director of Vocal Studies), Frederick R. Weldy (Piano)

**Lecturers:** Akwasi Papa Abrefah (Steelpan), Kumaran Arul (Piano), Erika Arulanantham (Theory), Mark Brandenburg (Clarinet), Marie-Louise Catsalis (Voice), Hongchan Choi (CCRMA, Autumn), Tony Clements (Tuba), Lyndsey Hoh Copeland (Musicology), Anthony Doheny (Violin), Greer Ellison (Flute, Baroque Flute), Charles A. Ferguson (Guitar), Debra Fong (Violin), Michael Galisatus (Jazz Ensemble), Russell Gavin (LSJUMB), Elena Georgieva (CCRMA), Dawn Harms (Violin, Viola), Alexandra Hawley (Flute), David Henderson (Classical Saxophone), Wendy Hillhouse (Voice), Melody Holmes-Vedder (Flute), Kathryne Jennings (Voice), Nova Jiménez (Voice), McDowell Kenley (Trombone), Hans Kretz (SNE), Joo-Mee Lee (Violin), Mary Linduska (Voice, Summer), Murray Low (Jazz & Jazz Piano), Adam Luftman (Trumpet), Loren Mach (Percussion), Anthony Martin (Baroque Violin), Robin May (Oboe), Charles McCarthy (Jazz Saxophone), Robert Huw Morgan (University Organist, Organ), Bruce Moyer (Contrabass), Herbert Myers (Early Winds), James Nadel (Jazz), Bryan Nies (Musical Theater), Rufus Olivier (Bassoon), Rafael Ornes (Summer Chorus) Lawrence Ragent (French Horn), Joshua Redman (Jazz), David Roekach (Drum Set), Robin Sharp (Violin), Annabelle Taubl (Harp), Elaine Thornburgh (Harpichord), Josh Thurston-Milgrom (Jazz Bass), Erik Ulman (Composition, Theory), Linda Uyechi (Taiko), Rick Vandivier (Jazz Guitar), John Worley (Jazz Trumpet), Hui (Daisy) You (Gu-Zheng), Timothy Zerlang (University Carillonneur, Piano)

**Adjunct Professors:** Jonathan Abel (CCRMA), David Berners (CCRMA), Marina Bosi (CCRMA), Poppy Crum (CCRMA), Pierre Divenyi (CCRMA), Walter Hewlett (Computer-Assisted Research in the Humanities), Gautham Mysore (CCRMA), Craig Sapp (Computer-Assisted Research in the Humanities), Eleanor Selfridge-Field (Computer-Assisted Research in the Humanities), Malcolm Slaney (CCRMA)

**Artists-in-Residence (St. Lawrence String Quartet):** Geoff Nuttall (Violin), Owen Dalby (Violin), Lesley Robertson (Viola), Christopher Costanza (Cello)