

A GPA of 3.0 or better must be maintained.

1. All Applied Mathematics and Mathematics students must complete the requirements for MS and pass the **Preliminary Examination** based on MATH 600, MATH 602, (Advanced Calculus) and MATH 672 (Linear Algebra) or MATH 611 (Numerical Linear Algebra). Students entering with Bachelor's degrees are required to pass the Preliminary Examination by the beginning of their 4th semester (by the beginning of their 2nd semester for students entering with Master's degrees). Students who do not meet this requirement are recommended for dismissal.
2. Complete 48 hours of scheduled courses at the 6xx or higher level, of which a maximum of 27 hours may be 6xx level courses in the Mathematics Department.
3. Pass the oral candidacy Examination by a committee of at least 3 faculty members.
4. Doctoral Dissertation (9 credits): MATH969. Additional requirements. (33 credits)

**Candidacy Exam:** A student entering with a Bachelor's degree must pass the oral Candidacy Exam by the beginning of his/her 6th semester of study (by the 4th semester of study for those entering with a Master's degree). A second and final attempt is permitted. Dismissal will be recommended for a student who does not pass the Candidacy Exam on the second try.

In this examination a student must choose 2 topics from Algebra, Analysis, Applied Mathematics, Discrete Mathematics, Probability, and Numerical and Functional Analysis. The exams are based on MATH 650 and MATH 845 (Algebra), MATH 805, and MATH 807 (Analysis), MATH 616, MATH 617 and MATH 810/MATH 835 (Applied Mathematics), MATH 688 and MATH 689 (Discrete Mathematics), MATH 630, MATH 631, and MATH 850 (Probability), and MATH 611, MATH 612 and MATH 806 (Numerical and Functional Analysis). Another subject area may be substituted for one of the above by petition to the graduate committee based on two graduate level courses and supported by a faculty member.

**Dissertation:** A student must successfully defend his/her dissertation in front of a committee consisting of the dissertation advisor and no less than three additional members, one of whom must be from outside the department. The dissertation must contain original publishable results.

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## MUSIC

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Telephone: (302) 831-2577

<http://www.music.udel.edu>

Faculty Listing: <http://www.music.udel.edu/faculty/directory/>

### PROGRAM OVERVIEW

The Department of Music offers master's degree programs for students seeking advanced study in music. The degree Master of Music has two main purposes: (1) To provide instruction for gifted performers as they enter the professional world of orchestral, recital, and solo performance; or, (2) To enhance and upgrade the credentials and abilities of K-12 music educators, individuals preparing to enter doctoral-level programs in performance, and students intending to teach in postsecondary level institutions where the master's degree is required.

Students may choose between three concentrations: Performance (emphasizing studio instruction or conducting, and culminating in a public recital), Teaching (directed towards music educators in grades K-12 who desire a master's degree in this discipline), or Composition.

### RESEARCH FACILITIES

Music study is enriched by the well-equipped and modern facilities in the Amy E. du Pont Music Building and the new Center for the Arts. These provide ample rehearsal, practice, and performance spaces. An excellent collection of scores, books, and music journals is housed in the University's Morris Library. In addition, the department's Music Resources Center contains study scores and chamber music, as well as a fine collection of audio and video recordings. The building also houses extensive electronic equipment to support the work in computer and video-disc technology which has earned the department international acclaim.

### REQUIREMENTS FOR ADMISSION FOR THE MASTER'S DEGREE

The entering student is expected to have an undergraduate degree in music. The applicant must also submit a transcript of all previous academic work to the Office of Graduate Studies, revealing an acceptable grade-point average (normally 3.0). The student must also submit a statement of professional goals and three letters of recommendation to the Office of Graduate Studies. Students applying for admission to the Performance Concentration must pass an audition.

Applicants must perform satisfactorily on the department's music theory placement test prior to enrolling in MUSC 695 (Advanced Analytical Techniques). Any and all deficiencies indicated must be corrected before the student may enroll in MUSC 695. This may be accomplished through enrollment in one or more existing undergraduate music theory courses or through a program of self-study, tutoring, or laboratory work. The department's Coordinator of Graduate Studies will prescribe remedial action, if any, appropriate for each person. The student will be required to retake and pass the portions of the exam in which deficiencies were found before enrolling in MUSC 695. Applicants must also perform satisfactorily on the music history qualifying exam within the first year of matriculation in the Master of Music program. Students may take the music theory placement exam or the music history qualifying exam only three times. Any student failing to pass either exam on the third try will no longer be able to continue in the Master of Music program.

Admission is selective and competitive based on the number of well-qualified applicants and the limits of available faculty and facilities. Those who meet stated minimum academic requirements are not guaranteed admission, nor are those who fail to meet those requirements necessarily precluded from admission if they offer other appropriate strengths.

### FINANCIAL AID

Graduate assistantships are available to a select number of full-time students. The applicant should contact the department for information. Please refer to the chapter "Graduate Fellowships and Assistantships" in this catalog for additional information.

### REQUIREMENTS FOR THE MASTER'S DEGREE

#### I. PERFORMANCE CONCENTRATION

##### Courses:

Students are required to complete 35 credit hours (maintaining a grade average of B or better) to be granted the degree Master of Music: Performance. All students take the following:

MUSC 601	Master's Recital . . . . .	2
MUSC 603	Chamber Music Literature . . . . .	3
MUSC 605	Symphonic Literature . . . . .	3
	(for those students whose major is an orchestral instrument)	
or		
MUSC 602	Advanced Keyboard Literature (for those students whose major is piano or organ)	
MUSC 611	Studies in Music History . . . . .	3

MUSC 620	Large Ensemble	2
MUSC 621	Chamber Ensemble	1
MUSC 622	Materials and Methods of Research	3
MUSC 661	Advanced Private Study	3
MUSC 662	Advanced Private Study	3
MUSC 663	Advanced Private Study	3
MUSC 681	Pedagogy and Literature	3
MUSC 695	Advanced Analytical Techniques	3
ELECTIVE	Music or Non-Music elective	3

**Other Requirements:**

The culmination of the degree is a public recital (MUSC 601), which is preceded by an acceptable recital-approval hearing. In addition, toward the end of the course of study, the student must pass an oral examination.

**II. PERFORMANCE CONCENTRATION (VOICE)****Courses:**

Students are required to complete 34 credit hours (maintaining a grade average of B or better) to be granted the degree Master of Music: Performance. All students take the following:

MUSC 601	Master's Recital	2
MUSC 608	Vocal Literature	3
MUSC 609	Choral Music Literature I	3
or		
MUSC 610	Choral Music Literature II	3
MUSC 611	Studies in Music History	3
MUSC 620	Large Ensemble	1
MUSC 621	Chamber Ensemble	1
MUSC 622	Materials and Methods of Research	3
MUSC 661	Advanced Private Study	3
MUSC 662	Advanced Private Study	3
MUSC 663	Advanced Private Study	3
MUSC 681	Pedagogy and Literature	3
MUSC 695	Advanced Analytical Techniques	3
ELECTIVE	Music or Non-Music elective	3

**Other Requirements:**

The culmination of the degree is a public recital (MUSC 601), which is preceded by an acceptable recital-approval hearing. In addition, toward the end of the course of study, the student must pass an oral examination.

**III. PERFORMANCE CONCENTRATION (CONDUCTING)****Courses:**

Students are required to complete 33 credit hours (maintaining a grade average of B or better) to be granted the degree Master of Music: Performance. All students take the following:

MUSC 600	Master's Performance in Conducting	2
MUSC 603	Chamber Music Literature	3
MUSC 611	Studies in Music History	3
MUSC 620	Large Ensemble	1
MUSC 621	Chamber Ensemble	1
MUSC 622	Materials and Methods of Research	3
MUSC 661	Advanced Private Study	4
MUSC 662	Advanced Private Study	4
MUSC 695	Advanced Analytical Techniques	3
ELECTIVE	Music or Non-Music elective	3

Students specializing in Instrumental Conducting:

MUSC 605	Symphonic Literature	3
MUSC 606	Wind Literature	3

Students specializing in Choral Conducting:

MUSC 609	Choral Music Literature I	3
MUSC 610	Choral Music Literature II	3

**Other Requirements:**

The culmination of the degree is a public recital (MUSC 600), which is preceded by an acceptable recital-approval hearing. In addition, toward the end of the course of study, the student must pass an oral examination.

**IV. TEACHING CONCENTRATION****Courses:**

Students are required to complete 30-31 credit hours (maintaining a grade average of B or better) to be granted the degree Master of Music: Teaching. All students take the following:

**Core Courses (9 cr.):**

MUSC 611	Studies in Music History	3
MUSC 622	Materials and Methods of Research	3
MUSC 695	Advanced Analytical Techniques	3

**Music Education Courses (6 cr.):**

MUSC 640	Philosophical Issues in Music Education	3
MUSC 676	Seminar in Music Education	3

**Specialization Component (3-4 cr.):**

Students can elect one of three areas of specialization: Choral, Instrumental, or General Music K-12. The courses for each are as follows:

**Choral**

MUSC 636	Advanced Choral Conducting	3
MUSC 638	Large Ensemble Practicum	1
	(Large Ensemble to be chosen with the approval of the faculty advisor)	

**OR****Instrumental**

MUSC 637	Advanced Instrumental Conducting	3
MUSC 638	Large Ensemble Practicum	1
	(Large Ensemble to be chosen with the approval of the faculty advisor)	

**OR****General Music K-12**

MUSC 675	General Music K-12	3
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**Thesis or Project (6 cr.):**

Students can elect to write a thesis or pursue a project in which they develop and implement a teaching portfolio. The courses for each are as follows:

**Thesis**

MUSC 869	Master's Thesis	6
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**OR****Project**

MUSC 679	Professional Improvement Project I	3
MUSC 680	Professional Improvement Project II	3

**Elective Courses (6 cr.):**

All elective courses must be approved by the Music Education Advisor. The courses must be graduate-level courses, and they may be taken in music or in other departments.

**V. COMPOSITION CONCENTRATION****Courses:**

Students are required to complete 33 credit hours (maintaining a grade average of B or better) to be granted the degree Master of Music: Composition. All students take the following:

MUSC 601	Master's Recital	3
MUSC 611	Studies in Music History	3
MUSC 621	Chamber Ensemble: Still Breathing	3
MUSC 622	Materials and Methods of Research	3
MUSC 661	Advanced Private Study: Conducting I	3
MUSC 661	Advanced Private Study: Composition	3
MUSC 662	Advanced Private Study: Composition	3
MUSC 684	Recording Techniques	3
MUSC 688	Principles of Music Industry Practicel	3
MUSC 695	Advanced Analytical Techniques	3

**Elective:**

MUSC 631	Advanced Arranging	3
or		
MUSC 663	Advanced Private Study: Composition	3
or		
MUSC 697	Advanced Jazz Harmony	3

**PHYSICAL THERAPY**

Telephone: (302) 831-8910

<http://www.udel.edu/PT>

Faculty Listing: <http://www.udel.edu/PT/About%20Us/directory.html>

**PROGRAM OVERVIEW**

The Physical Therapy Department offers a Doctorate of Physical Therapy (DPT) degree program. This entry-level degree program qualifies the graduate to sit for the physical therapy licensure examination in any state in the country. The Commission on Accreditation in Physical Therapy Education accredits the program.

The Physical Therapy Department is housed in McKinly Laboratory and has modern well-equipped laboratories for research, teaching, and clinical practice. In addition, there are three on-site physical therapy practice clinics, which are staffed by licensed physical therapists.