



music major elective requirements. Course outlines detailing specific course content are available from the instructor. The requirements correlate with guidelines suggested by the National Association of Schools of Music as outlined in the Department of Music Student Handbook.

## Undergraduate Programs

### BA: Music (45)

A liberal arts degree allows one to pursue a broad range of interests while majoring in music. The BA with a major in music is viable as a double major.

Note that in order to receive the BA: Music, students must take general education requirements for the Bachelor of Arts.

**Major Requirements:** MUCT , , , , , , , , , , ; MUHL , , , ; minimum credits of performance in one area which includes a - or -credit recital or project; credits of ensemble; MUPF ; Piano Proficiency.

**Cognate:** PHYS (fulfills GE Physical Science requirement); MURE (fulfills GE Religion requirement).

At least one course other than ensemble or applied music must be taken in residence. A minimum of credits in applied music must be taken as upper-division credits. Keyboard majors (piano or organ) must take credit of MUPF Keyboard Accompaniment and credit of MUPF Collaborative Piano as part of their credits of ensemble. The remaining credits must be taken in one of the major ensembles.

### BMus: Bachelor of Music

Two majors are available for the BMus degree: Music Education and Performance. Requirements for each of these two majors are outlined below:

### Music Education (84)

A degree for students seeking careers as certified K– teachers in pre-collegiate denominational or public schools. Students normally spend five years in residence to complete the requirements. Requires state teacher certification. First-year students must make application and consult with the certification clerk in the School of Education to keep abreast of certification requirements.

#### General Education Requirements

See professional program requirements, p. , and note the following **specific** requirements:

**Religion:** RELT , , , th course (see SED advisor)

**Language/Communication:** ENGL , , COMM

**History:** HIST or

**Fine Arts/Humanities:** fulfilled from core curriculum

**Life/Physical Sciences:** PHYS

**Mathematics:** MATH or higher

**Computer Literacy:** fulfilled from core curriculum

**Service:** EDTE from SED requirements

**Social Sciences:** GDPC from SED requirements

**Fitness Education:** HLED plus one Fitness Education course

#### Music Core Requirements—38

MUCT , , , , , , , , , , , , , , ; choose one of the following two courses: MUCT or ; MUHL , , , , , , ; MUPF every semester; Piano Proficiency

#### Music Education Requirements—46

MUED , , , , , , , , , , , , , , ; choose one of the following courses: MUED , , , and MUPF ; minimum credits minor performance (wind, string, voice or keyboard instrument), minimum credits major performance which includes a - or

- MUED , , ; MUPF (for voice majors only); MUPF (for instrumentalists only)
- Applied area literature course, applied area pedagogy course.
- Ensemble: credits. Bachelor of Music degree students majoring in piano or organ performance must take credits of MUPF Keyboard Accompaniment and credits of MUPF Collaborative Piano. The remaining credits must be taken in one of the major ensembles.
- MUPF Junior Recital ( credit) and MUPF Senior Recital ( credits).
- Attendance at major area master classes.

## Minor in Music (26)

MUCT , , , , ; MUHL , , ; minimum credits of performance in one area; credits of ensemble; MUPF ; Piano Proficiency.

## Graduate Programs

### Admission Requirements and Procedures

- General requirements for admission to graduate study as stated in the Admissions section of this bulletin.
- Musicians with various backgrounds often qualify to study music at the graduate level. Normally, a baccalaureate degree with a major in music is required; however, the following categories may also qualify:
  - . Students with an earned baccalaureate degree within any major, assuming adequate undergraduate preparation in music. Adequate preparation includes mastery of music theory equivalent to content of MUCT Music Theory IV and MUCT Ear Training Laboratory III; mastery of music history equivalent to content of MUHL - Music Literature and Style (Antiquity to th Century); and mastery of level of performance appropriate to the specific chosen master's program.
  - . Students who have completed programs comparable to the baccalaureate degree from non-United States institutions.
- The Department of Music requires placement examinations in music history and literature, music theory, piano proficiency, and an audition in the major area of performance for all entering students prior to registration. Admission status is provisional until these examinations are completed and any deficiencies removed. Courses used to make up for a deficiency may be taken for graduate credit but may not count for graduate requirements; a minimum grade of B must be earned.
- A Graduate Scholarship Tuition Reduction is available to students with a minimum GRE Exam score of (quantitative + verbal) or Music Placement Exam average score of .

### Double Major Policy for Graduate Music Programs:

- Two

Music Education, MMus: Music Ministry; MMus: Performance) are required to take the 3-credit course MUED 300 Practical Training to develop professional experience in music. To fulfill this requirement, students are required to meet a minimum of 100 hours of work/service while enrolled in the masters program. This could be done over the summer. Some recommended areas of work/service that may count toward this practical training experience are as follows:

- Music ministers in church settings
- Music teachers or instructors for a public or private school
- Instrumentalists performing in professional or community ensembles
- Research assistants in approved music research projects
- Other alternative activities must be approved by the student's major professor

After completing this requirement students will fill out and submit the form Completion of Practical Training Requirements to their major professor for evaluation and signature. Students who have completed this requirement should submit the form

keys and rhythm, as well as the basic elements of melody and harmony (scales, intervals, and triads) and a basic study of the principles of chord progression utilizing triads in root position. Requires concurrent enrollment in MUCT .

**MUCT142 (3)**

Study of the principles of voice leading and chord progression in applied four-part harmonization. Emphasis will be placed on interpretation and realization of Figured Bases, four-part harmonization using triads and seventh chords in root position as well as in inversions, the study and use of non-harmonic tones, and the dominant seventh chord as well as the other non-dominant seventh chords. Requires concurrent enrollment in MUCT . Prerequisite: MUCT .

**MUCT151, 152, 153, 154 (1, 1, 1, 1)**

Aural skill with melodies, rhythms, intervals, chords and harmonic progressions. Activities include sight reading, error correction, transcription and improvisation of tonal music. Requires concurrent enrollment in MUCT , , and .

**MUCT241 (3)**

Theoretical and practical study of the entire spectrum of chromatic harmony vocabulary with emphasis in composition and analysis.(emphasis )1(inJ ET 1(e))TJ T\* [(harmon)30(y )1(v)20(oca)14ca)14caorysis.(emphasisq /

the instrument along with study of organ teaching and emphasis on keyboard and pedal technique, interpretation, sight reading, and teaching repertoire.

**MUED422**

**t Alt (3)**

origins to the present. Emphasis is placed on compositional and stylistic trends and surrounding artistic climates. Spring, even years

**MUHL524** (2)

A study of selected major works from representative period(s)/composer(s). Provides a synthesis of musicological, historical, analytical, and interpretational techniques. Different literature covered each semester. Prerequisite: Advanced-level survey courses or demonstrated equivalent. Repeatable with different emphases.

General Education

**MUHL214** (3)

An opportunity to acquire a better appreciation of classical music—to discover how church music, folk songs, jazz, spirituals, gospel, rock and roll, and pop music fit into the broad spectrum of classical music from A.D. to the present day.

**MUHL214V** C (3)

Online correspondence course—see content above.

Honors

**MUPF396-50** (1)

A memorized recital under the supervision of a music honors committee. Research document on compositions performed is required. May be taken in lieu of certain required and applied music courses.

**MUPF496-50** (2)

A memorized recital under the supervision of a music honors committee. A research document on compositions performed is required. May be taken in lieu of certain required and applied music courses.

Independent Study

**MUPF495** (1-3)

In consultation with a member of the music faculty, a student may choose independent study in a special area of music. A brief outline of the study to be pursued must be submitted to the department chair. A minimum of hours of work is required for each credit. Permission of the department chair required.

Church Music

**MURE420** Alt (3)

The biblical basis for and the theological implications involved in church-music practice with emphasis on the development of principles for guidance in the use and selection of available literature. Spring, even years

**MURE485** t (2)

The development of the organ and organ literature; a practical

study of church services, including organ registrations for choral music, vocal solos, and hymn playing; discussion of the organ interlude and improvisation. Concurrent enrollment in applied music—organ is recommended.

**MURE520** Alt (2)

The understanding and appreciation of the heritage and development of Christian hymn singing and Church music repertoire, in their respective liturgical and theological contexts. Spring, even years

**MURE590** (1+1)

A two-semester internship as minister of music or minister of music assistant in a selected church in the local area.

Performance

**Private Music Lessons**

There is open enrollment for private music lessons (credit and non-credit) until the drop/add deadline of each semester (th calendar day after the beginning of each semester).

**For performance majors only** § (1-3)

MUPF Applied Music—First-year  
MUPF Applied Music—Sophomore  
MUPF Applied Music—Junior  
MUPF Applied Music—Senior

**MUPF165-465** § (1-3)

The private study of the performance repertoire and technique of the given instrument or voice and the study of performance-related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance-related skills study includes the development of basic-level skills in improvisation and the study of sight-reading. Each of these courses require concurrent enrollment in MUPF .

**For non-performance majors and minors** § (1-2)

MUPF Applied Music—First-year  
MUPF Applied Music—Sophomore  
MUPF Applied Music—Junior  
MUPF Applied Music—Senior

**MUPF164-464** § (1-2)

The private study of the performance repertoire and technique of the given instrument or voice and the study of performance-related skills. Repertoire study includes solo and concerted works. Technical study includes scales and arpeggios, technical exercises appropriate to the performance medium, excerpts (where appropriate) and etudes. Performance-related skills study includes the development of basic-level skills in improvisation and the study of sight-reading. Each of these courses require concurrent enrollment in MUPF .

Non-music students may register for music lessons. These courses do not apply toward fulfilling music major degree requirements without specific music faculty action.





- MUPF Ladies' Chorus
- MUPF Chamber Music Ensembles
- MUPF Sinfonietta
- MUPF Men's Chorus
- MUPF Keyboard Accompanying
- MUPF Collaborative Piano
- MUPF Recital Accompanying

**MUPF550** **\$ (1-4)**

Private instruction in composition.

**MUPF560** **\$ (1-4)**

Style and development of repertoire; preparation for public performance. Repeatable. Each of these courses require concurrent enrollment in MUPF .

**MUPF575** **(1-2)**

**MUPF640** **(0)**

Research and Specialized Study

**MUHL650** **\$ (0)**

Student may register for this title while clearing deferred grade (DG) and/or incomplete (I) courses with advisor approval only. Registration for this title indicates full-time status.

**MUHL655** **\$ (0)**

Students may register for this non-credit continuation course to maintain active status. For additional information on active status, please refer to p. in the bulletin. Registration does not indicate full-time status.

**MUHL665** **\$ (0)**

Advisor approval required. Registration for this title indicates full-time status.

**MUHL670** **(0)**

**MUHL695** **(1-2)**

An introduction to the tools and materials available in music research, with a critical analysis of sources. An examination of the goals and methods of research in music and an introduction to scholarly writing.

**MUHL697** **(1-3)**

Repeatable.

**MUHL698** **(2)**

Repeatable to credits.

**MUHL699** **(6)**

# PHYSICS

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Haughey Hall, Room

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<http://physics.andrews.edu>

**Faculty**

- Margarita C. K. Mattingly, Chair
- Gary W. Burdick
- G. Brendan Cross
- Mickey D. Kutzner
- Tiffany Z. Summerscales
- Stephen C. Thorman

- Ronald L. Johnson, Director, Physics Enterprises
- Robert E. Kingman
- S. Clark Rowland

Academic Programs	Credits
BS: P	