

487, 488, 489, 490 Topics

The subject matter of these courses, announced in the annual *Class Schedule*, will vary from year to year, but will not duplicate existing courses. See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

491, 492, 493, 494 Research

See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

495, 496, 497, 498 Individual Study

See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

Music (MUSC)

Krebsbach (chair), A. Bryan, M. Bryan, Callahan, George, Gustafson, Jorgenson, Kachian

The Department of Music offers a Bachelor of Arts in music plus a concentration in music/business, and a Bachelor of Arts in music education.

Individualized majors in such areas as accompanying and liturgical music also are available. Consult the department chair.

The department offers minors for those students who have an interest in music, but do not wish to major in the field.

A variety of musical ensembles are available for instrumentalists and vocalists.

Individual lessons are provided for all standard instruments and voice on a credit basis through the department, or on a non-credit basis through the St. Thomas Conservatory of Music.

The University of St. Thomas is a member of the National Association of Schools of Music.

More information concerning the department’s offerings can be found in the *Handbook for Music Students*, which is available from the office of the Department of Music.

Students majoring in music may not have a letter grade lower than C- in a required music course.

Major in Music

112 Introduction to Music

113 Theory I

212 Theory II

213 Theory III

312 Theory IV

411 History and Literature of Music I

412 History and Literature of Music II

Plus performance studies (MUSP):

Eight semesters of performance studies at 200-level in the same performance medium (2 credits per semester)

Plus:

MUSP 102 or 103 Skills for Piano Proficiency

MUSR 200 Piano Proficiency

MUSR 270 Level I Recital

MUSR 350 Level II Recital

MUSR 450 Level III Recital

Plus ensemble (MUSN) participation:

Every music major is required to register for and successfully complete an ensemble during each semester of full-time enrollment. A minimum of eight semesters of ensemble participation is required for graduation regardless of full- or part-time status. (Students majoring in music register for ensembles on an audit basis.)

Guidelines for choosing an ensemble:

If principal instrument is:

Piano – at least two semesters in 171; at least two semesters in 172; at least two semesters in one of: 143, 160, 181, 185, 186, 190; two semesters may be in 161, 182, 183

Voice – at least eight semesters in choral ensembles (a maximum of six semesters in any one of: 140, 143, 160; a maximum of two semesters in 190)

Woodwind, brass, or percussion – at least eight semesters in 185 or 186

Orchestral string – at least eight semesters in 181

Guitar – at least six semesters in 173; at least two semesters in 174

Other instruments – at least eight semesters chosen from: 143, 160, 171, 172, 181, 185, 190

Music

Allied requirements:

PHYS 105 Musical Acoustics
One course in Art History or Theater

Concentration in Music/Business

This emphasis allows a person to have a solid music foundation while pursuing a related field in business. The seminar and internship included in this emphasis help the student focus on the type of music business that is of interest to him/her.

112 Introduction to Music
113 Theory I
212 Theory II
213 Theory III
312 Theory IV
411 History and Literature of Music I
412 History and Literature of Music II
480 Music/Business Seminar

Plus performance studies (MUSP):

Six semesters of performance studies at 200-level in the same performance medium (2 credits per semester)

Plus:

MUSP 102 or 103 Skills for Piano Proficiency
MUSR 200 Piano Proficiency
MUSR 270 Level I Recital
MUSR 350 Level II Recital

Plus Ensemble participation:

See ensemble (MUSN) participation under Major in Music

Allied requirements:

ACCT 211 Financial Accounting
BUS 300 Business Ethics (2 credits)
IDSC 475 Experiential Learning: Career Exploration Externship (2 credits)
MGMT 150 Introduction to Business
MGMT 340 Management I
MKTG 300 Principles of Marketing

Plus one of:

BLAW 365 Business Law
BLAW 366 Legal Environment of Business
BLAW 367 International Business Law

Plus one of:

ECON 251 Principles of Macroeconomics
ECON 252 Principles of Microeconomics

Plus:

PHYS 105 Musical Acoustics
One course in Art History or Theater

Major in Music Education (B.A.)

Licensure for music teachers in the state of Minnesota is in one of the following categories:

Vocal and Classroom Music K-12
Instrumental and Classroom Music K-12

Vocal and Classroom Music K-12

112 Introduction to Music
113 Theory I
212 Theory II
213 Theory III
312 Theory IV
351 Introduction to Conducting (2 credits)
352 Choral Conducting
411 History and Literature of Music I
412 History and Literature of Music II

Plus performance studies:

Six semesters of performance studies at 200-level in the same performance medium (2 credits per semester)

Four semesters of 133 (1/2 hour lesson) if voice is not principal instrument

Plus:

MUSP 102 or 103 Skills for Piano Proficiency
 MUSR 200 Piano Proficiency
 MUSR 270 Level I Recital
 MUSR 350 Level II Recital

Plus ensemble participation:

See ensemble (MUSN) participation under Major in Music

Allied requirements:

EDUC 210 Education's Place in Society
 EDUC 212 Human Relations and Multicultural Education
 EDUC 226 Woodwinds in Classroom Teaching (2 credits)
 EDUC 228 Brass and Percussion in Classroom Teaching (2 credits)
 EDUC 230 Strings in Classroom Teaching (2 credits)
 EDUC 260 Elementary Classroom Music Pedagogy*
 EDUC 320 Psychology of Instruction for a Continuum of Learners
 EDUC 323 Personal and Community Health, Alcohol, and Drugs
 EDUC 360 Secondary Classroom Music Pedagogy*
 EDUC 362 Teaching Techniques for Voice
 PHYS 105 Musical Acoustics

*Fulfills Block III requirement (EDUC 400)

An additional ten credits taken in Graduate Education complete licensure. These credits may apply towards a master's degree (Plan B).

See Department of Teacher Education in this catalog for further details.

EDUC 520 Student Teaching and Seminar (3 credits)
 EDUC 670 Teacher as Agent of Change (3 credits)
 MUS 516 Developing the Child Voice (2 credits)
 MUS 561 Teaching World Music (2 credits)

Instrumental and Classroom Music K-12

112 Introduction to Music
 113 Theory I
 212 Theory II
 213 Theory III
 312 Theory IV
 351 Introduction to Conducting (2 credits)
 353 Instrumental Conducting
 411 History and Literature of Music I
 412 History and Literature of Music II

Plus performance studies:

Six semesters of performance studies at 200-level in the same performance medium (2 credits per semester)

Plus:

MUSP 102 or 103 Skills for Piano Proficiency
 MUSR 200 Piano Proficiency
 MUSR 270 Level I Recital
 MUSR 350 Level II Recital

Plus ensemble participation:

See ensemble (MUSN) participation under Major in Music

Allied requirements:

EDUC 210 Education's Place in Society
 EDUC 212 Human Relations and Multicultural Education
 EDUC 214 Teaching Techniques Woodwinds I (2 credits)
 EDUC 216 Teaching Techniques Woodwinds II (2 credits)
 EDUC 218 Teaching Techniques Brass and Percussion I (2 credits)
 EDUC 220 Teaching Techniques Brass and Percussion II (2 credits)
 EDUC 222 Teaching Techniques Strings I (2 credits)
 EDUC 224 Teaching Techniques Strings II (2 credits)
 EDUC 260 Elementary Classroom Music Pedagogy*
 EDUC 320 Psychology of Instruction for a Continuum of Learners
 EDUC 323 Personal and Community Health, Alcohol and Drugs
 EDUC 360 Secondary Classroom Music Pedagogy**
 PHYS 105 Musical Acoustics

*Fulfills Block III requirement (EDUC 400)

Music

An additional 10 credits taken in Graduate Education complete licensure. These credits may apply towards a master's degree (Plan B).

See Department of Teacher Education section for further details.

EDUC 520 Student Teaching and Seminar (3 credits)
EDUC 670 Teacher as Agent of Change (3 credits)
MUS 516 Developing the Child Voice (2 credits)
MUS 561 Teaching World Music (2 credits)

Minor in Music

112 Introduction to Music
113 Theory I
412 Music History & Literature II

Plus one of the following:

212 Theory II
411 History and Literature of Music I

Plus performance studies:

Four semesters at 100-level (50-minute lessons) in same performance medium (1 credit per semester).

Plus:

MUSR 270 Level I Recital

Plus ensemble participation:

Four semesters in appropriate ensemble for principal instrument (see guidelines for choosing an ensemble under Major in Music)

Minor in Electronic Music Production

112 Introduction to Music
113 Theory I
114 Theory II
150 MIDI Studio (2 credits)
180 Multi-Track Tape Recording (2 credits)
220 Digital Recording/Sampling (2 credits)
240 Musical Audio Post Production (2 credits)

Allied requirement:

PHYS 105 Musical Acoustics

Minor in Jazz Studies

125 Jazz Theory I (2 credits)
126 Fundamentals of Jazz Musicianship I (2 credits)
216 Jazz in America
223 Jazz Arranging (2 credits)
226 Fundamentals of Jazz Musicianship II (2 credits)

Plus two of:

224 Jazz Composition/Song Writing (2 credits)
225 Jazz Theory II (2 credits)
228 Advanced Jazz Arranging (2 credits)

Plus performance studies:

Four semesters of performance jazz studies at the 100-level (50-minute lessons)

Plus:

MUSR 290 Jazz Recital

Plus ensemble participation:

Four semesters in
MUSN 182 Instrumental Jazz Ensemble

or

MUSN 183 Jazz Singers

Music Courses (MUSC)

105 Fundamentals of Music

A basic course designed to give students an understanding of the rudiments of music.

2 credits

112 Introduction to Music (115, 217, 219)

An introduction to the history, literature, and theory of music. This course establishes fundamental theoretical concepts and skills, provides an historical overview of western art music, and includes an introduction to world music. Meaning, expression, and music in culture are explored through discussion, critical listening, reading, and writing.

113 Theory I

Basic materials and structures of music, approached through analysis and experience. The four-semester sequence integrates sight-singing and ear-training with the analysis of harmony, form and contrapuntal procedures from the 16th through the 20th centuries. Assignments will include the development of compositional and arranging skills including those skills needed to write for the standard instruments of the wind ensemble and orchestra. Lecture plus 100 minutes laboratory per week.

Prerequisite: 112

115 Music Literature (112, 118, 119)

Music listening designed for the non-major. Discussion of representative works from the symphony, concerto, opera, chamber music and keyboard repertoire. Includes works by European and American composers showing intercultural influences and various ethnic and indigenous traditions representative of the great periods of musical art.

118 Music Literature to 1850 (112, 115)**2 credits**

The first half of 115, the general survey of music up to approximately 1850. Offered in January Term.

119 Music Literature 1850 to Present (112, 115)**2 credits**

The second half of 115, the general survey of music, beginning around 1850 and continuing the survey to the present. Offered in January Term.

Prerequisite: 118

120 Orchestral Literature

This course presents an overview of orchestral and instrumental chamber music, combining a critical and historical study of music with the regular experience of hearing live music. The course includes preparation for seven Wednesday evening concerts at Orchestra Hall as well as in-class presentations which cover knowledge and appreciation of music, musical performance, and the creative process.

125 Jazz Theory I**2 credits**

This course will present a detailed exploration of the harmonic vocabulary used in jazz performance. The course will cover basic chord construction as well as chord extensions and alterations. The chords will be presented with their related modes and scales so the student may be able to analyze the relationship of melody to harmony. The student will learn several approaches to chord substitution including the chromatic dominant approach and substitution based on plurality.

Prerequisite: Ability to read music

126 Fundamentals of Jazz Musicianship I**2 credits**

This course is designed to give the student a working knowledge of the skills required for jazz performance and research of historical performance practice. Study will include rhythm (how to swing); melody (how to jazz it up); harmony (how to jazz it up part 2). All styles of jazz will be examined, beginning with blues, modal tunes and the study of jazz standards. A systematic approach to the art of improvisation with emphasis placed on ear training exercises, in-class improvisation and performance. This course is open to all instrumentalists and singers.

130 Introduction to World Music

This course studies the phenomenon of music as an activity in people's lives. Students will be guided to think critically about music employing a multicultural perspective. Models will be presented to provide a context in which music serves as part of larger social ritual. European Art Music from the Middle Ages to the present day in addition to music of cultures such as African, Indian, Japanese, Eastern European, Native American, Indonesian, Chinese and American popular music will be covered. Designed for the non-major. This course fulfills the Human Diversity requirement in the core curriculum.

150 MIDI Studio**2 credits**

Work with synthesizers and record the results with a Macintosh computer in a state-of-the-art MIDI studio. Special emphasis is placed on sequencing techniques and music editing on multi-track arrangements. Basic-to-advanced MIDI functions will be explained and utilized in team studio sessions. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

175 Italian Diction for Singers**1 credit**

An introduction to Italian pronunciation, utilizing the International Phonetic Alphabet. A guide to

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the use of the dictionary in the language. Special emphasis on the problems encountered by the singer.

176 German Diction for Singers **1 credit**

An introduction to German pronunciation, utilizing the International Phonetic Alphabet. A guide to the use of the dictionary in the language. Special emphasis on the problems encountered by the singer.

177 French Diction for Singers **1 credit**

An introduction to French pronunciation, utilizing the International Phonetic Alphabet. A guide to the use of the dictionary in the language. Special emphasis on the problems encountered by the singer.

178 Spanish Diction for Singers **1 credit**

An introduction to Spanish pronunciation, utilizing the International Phonetic Alphabet. A guide to the use of the dictionary in the language. Special emphasis on the problems encountered by the singer.

180 Multi-Track Tape Recording **2 credits**

Students will learn to record and mix music in an up-to-date multi-track recording studio: effects processors, compressor/limiter, vocal booth, large console, 8-track deck and more. Add to the recording by synchronizing the Macintosh computer and sequenced synthesizers. Operation of a mixing board and stereo mixdown will be covered early in the semester. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 150

212 Theory II (formerly 114)

Continuation of 113

Prerequisite: 113 or successful placement test

213 Theory III

Continuation of 212

Prerequisite: 212, or successful placement test

216 Jazz in America (formerly 116)

The origins and history of jazz in the United States. Various phases in the development of jazz style are discussed. Blues, ragtime, Dixieland, swing, bop, cool jazz, fusion, as well as other recent developments in jazz performances are investigated. An essential part of the course is the analysis and evaluation of recorded performances by outstanding jazz musicians. Designed for non-majors as well as an elective for music majors interested in jazz. Offered spring semester. This course fulfills the Human Diversity requirement in the core curriculum.

217 Music of the Americas (112)

A survey of music from the sixteenth century to the present as found in the Western hemisphere. Primarily concerned with the European influence brought by the various colonizing nations, some time is spent with the folk music of Canada, the United States and Latin America. Music of non-Western cultures are discussed as they relate to the native American and African-American influences in the New World. Designed for the non-major. This course fulfills the Human Diversity requirement in the core curriculum.

218 Black American Music: An Historical Survey

This course explores and examines the history and musical practices of Black American artists and music dating from Francis Johnson of the late 18th century to contemporary artists such as Prince, Sweet Honey in the Rock, and Wynton Marsalis. Styles examined and discussed begin with the formation of the spirituals, blues and jazz to contemporary concert composers (Anthony Davis, Tania Leon), to Motown, soul, rap, and other popular American music forms.

219 Music in the United States (112)

A survey of music heard in the United States from pre-Revolutionary days to the present, including discussions of the popular, folk and concert music. Particular emphasis will be given to forms of music which are unique to this country because of the diversity of its population. Designed for the non-major. Offered in fall semester.

220 Digital Recording and Sampling **2 credits**

Recording music and sound effects into the Macintosh and combining the results with MIDI sequences will be covered in this course. Students will sample both live sounds and material from compact-disc libraries, then edit them and finally place them alongside instrumental MIDI tracks. Subjects covered: digital recording theory and practice, digital media, evolution of digital technology, new equipment, musical applications. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 150

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222 The Theology of American Popular Music 2 credits

An examination of contemporary popular American music (spirituals, blues, jazz, rock, pop, and hip-hop) and discussion of the theological and artistic implications of these styles and traditions. The course will place an emphasis on their dual nature as cultural products expressing political and physical liberation as well as road maps for specific theological and spiritual world views.

223 Jazz Arranging 2 credits

The emphasis of this course is to introduce arranging concepts for instrumental and vocal applications. A basic overview of arranging materials (i.e. chord voicing, discussion of forms, music notation, ranges, vocal and instrumental differences, transpositions, rhythm section writing, and the construction of introductions and codas) will be covered. In addition, several scores will be discussed and analyzed.

224 Jazz Composition/Song Writing 2 credits

Introduces the concept of the nine basic chord families and the scales that play through each chord. Also covers polychords and their applications to conventional chord symbols. Study the craft of song and lyric writing.

Prerequisite: 125 or 126 or permission of the instructor

225 Jazz Theory II 2 credits

Continuation of 125. This course covers complex modes, altered scales, bitonality and advanced application of pentatonic scales. The student also will study tritonic and tetratonic scale structures and analyze selected jazz solos to understand their melodic and harmonic content.

Prerequisite: 125

226 Fundamentals of Jazz Musicianship II 2 credits

Continuation of 126. Further study of standards, including bebop, post bop, jazz-rock fusion and other contemporary styles.

Prerequisite: 126

228 Advanced Jazz Arranging 2 credits

Continuation of 223 with emphasis on both vocal and instrumental writing. The student will arrange selected jazz standards for the following ensembles: three horns with rhythm section, vocal jazz group (four voices, with and without rhythm section), and big band. The student also will study existing arrangements of Horace Silver, Duke Ellington, Manhattan Transfer and Gil Evans.

Prerequisites: 125, 223, 226

240 Music/Audio Post Production 2 credits

Emphasis is placed on the creation of soundtracks for video. Source material will come from taped television broadcasts, commercial tapes and in-house video productions. Elements of synchronization (VITC, SMPTE) will be explored. Writing musical soundtracks for advertisements and programs, students will have the opportunity to lay-in sound effects and dialogue using the Macintosh computer and digital recording and sequencing software and hardware. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 220

250 Introduction to Liturgical Music

A study of documentation and guidelines for sung prayer in the Roman Catholic Church. Explorations of various styles of music, the rites that they serve and the function of music in the liturgical context. An approach to issues and roles in contemporary music ministry.

251 Hymns and Psalms

History of hymn texts and tunes from early Christian through reforming churches to the present time. A study of psalm texts and their settings in antiphonaries, psalters and contemporary gradu-als.

252 Ritual Music

Planning repertoire for the assembly at Eucharist, as well as other music ministries. Relation of music to all the other rites: marriage, baptism, confirmation, funerals, etc. Some emphasis on celebration of Liturgy of the Hours as well.

253 Liturgical Planning

Overview regarding the integration of various components of liturgy: music and rite, environment and sound, word and music, etc. Long-range visions for parish planning and development in the Vatican II Church. Development of team-ministry attitudes.

281 Introduction to Accompanying 2 credits

This course focuses on topics related to the accompanying of singers and solo instrumentalists.

295, 296, 297, 298 Topics

The subject matter of these courses, announced in the annual *Class Schedule*, will vary from year to year, but will not duplicate existing courses. See the description of these courses at the beginning of the "Departments and Curricula" section of this catalog.

Music

300 Introduction to Piano Pedagogy **2 credits**

This class will survey methods and materials for piano study at various levels of advancement. Discussions will include principles of technique, learning theories, musicianship and performance skills. Class members will be required to observe piano lessons. Although the course is designed primarily for music majors (pianists), other qualified students may be admitted with the consent of the instructor.

303 Music Notation on Computer **2 credits**

Develop skills in using music publishing software. Intended for composers, music educators, choral and instrumental conductors and anyone interested in producing print-quality music using the Macintosh or IBM. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

307 Guitar Pedagogy **2 credits**

Historical overview of teaching methods beginning through advanced primers and student repertoire, exposure to all types of notational systems and discussion of professional teacher preparation.

312 Theory IV (formerly 214)

Continuation of 213

Prerequisite: 213, or successful placement test

318 Voice Literature

A survey of song literature by outstanding composers in Italy, France, Germany, Spain, Russia, Great Britain and America from 1800 to the present. Areas explored include performance, analysis of poetry and music, and comparison of nationalistic styles.

319 Piano Literature

A survey of keyboard literature from the beginning of the 18th century to the present day. Primarily for the music major (pianist) but open to all interested in piano literature.

320 Guitar Literature

A selected chronological survey of solo, ensemble and chamber ensemble literature for guitar from the 15th through the 20th centuries, including transcriptions from early music to popular.

335 Topics in World Music **2 credits**

Each time this course is offered, it presents an in-depth survey of the music of a particular culture, exploring the music of: East India, Java, the Orient, Africa, the Middle East, Native Americans, etc.

351 Introduction to Conducting **2 credits**

Content of the course includes basic conducting patterns and gestures, general knowledge of score types (choral, orchestral, band), score study and basic rehearsal planning. Practice in conducting small ensembles will be provided. Includes four hours of clinical experience. Offered in fall semester of even-numbered years.

352 Choral Conducting

Includes advanced choral conducting and rehearsal techniques, the study of performance practices, and a survey of choral literature appropriate for use in school or church choirs. Consideration is given to the daily rehearsal plan, rehearsal techniques and classroom management as these relate to the expected outcome of the entire unit. Laboratory method. Offered in spring semester of odd-numbered years.

Prerequisite: 351

353 Instrumental Conducting

As a continuation of 351, the conducting student will learn more complex conducting patterns and refined expressive gestures. A survey of the literature for orchestra and band with an in-depth study of selected pieces. An introduction to directing the jazz ensemble and marching band, including computer-assisted field show charting. Consideration also is given to the daily rehearsal plan, rehearsal techniques and classroom management as these relate to the expected outcome of the entire unit. Offered in spring semester of odd-numbered years.

Prerequisite: 351

411 History and Literature of Music I (formerly 311)

A survey of Western European music to 1800: the medieval, Renaissance, Baroque and Classical periods. Ancient traditions, historical development, social context, forms, styles and issues of expression are explored. Offered in fall semester.

412 History and Literature of Music II (formerly 312)

A survey of Western European music from 1800 to the present: the Romantic period and the twentieth century. This course includes traditional musics of the world and selected American popular styles. Emphasis is on social context and issues of meaning and expression. Continuation of 411. Offered in spring semester.

416 Orchestration **2 credits**
Ranges, timbres, and performance characteristics of string, winds and percussion instruments in the western tradition. Scoring for small and large ensembles of such instruments. Offered in fall semester.

Prerequisite: 200, 214

475, 476, 477, 478 Experiential Learning
See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

480 Music/Business Seminar
A course involving individual research that is shared among the participants. Adjunct faculty from various areas of music business, the electronic media industries and arts management make presentations to the seminar, which is under the direction of a faculty coordinator. A major research project is required.

483, 484, 485, 486 Seminar
See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

487, 488, 489, 490 Topics
The subject matter of these courses, announced in the annual *Class Schedule*, will vary from year to year, but will not duplicate existing courses. See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

491, 492, 493, 494 Research
See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

495, 496, 497, 498 Individual Study
See the description of these courses at the beginning of the “Departments and Curricula” section of this catalog.

Music Ensembles (MUSN)

Membership in music ensembles is based upon a successful audition. Students may register for the same ensemble in as many semesters as desired.

The Fine Arts requirement may be fulfilled by four semesters of participation (for credit) in one of the following ensembles: 140, 143, 160, 185, or 186. There is no tuition charged for ensemble registration.

Students majoring in music are required to register for and successfully complete an ensemble during each semester of full-time enrollment. A minimum of eight semesters is required for graduation regardless of full- or part-time status. (See specific ensemble requirements for various major emphases in the first part of the music section of this catalog, or consult the *Handbook for Music Students* available from the Department of Music office.) Music majors audit all ensembles.

140 Women’s Choir **1 credit**
A vocal ensemble that explores the wide variety of secular and sacred repertoire composed for women’s voices. Choral literature performed includes unaccompanied works as well as works performed with a professional chamber orchestra. Major performances are given each semester and may include exchange/joint concerts with other choirs. Three rehearsals a week. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement, or a combination of four semesters in 140 and 160, or a combination of four semesters in 140 and 143.

143 Liturgical Choir **1 credit**
Liturgical Choir is an ensemble of students of varied faith and cultural backgrounds that sings for services in the UST chapel. Local, regional and international tours are part of the choir’s ministry as well as concert performances with other Music Department ensembles. Two rehearsals a week plus bi-weekly Sunday chapel liturgies. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement, or a combination of four semesters in 143 and 140.

151 Men’s Schola Cantorum **1 credit**
This vocal ensemble focuses primarily on early Plainchant from the Gregorian chant tradition as well as contemporary chant repertoire. Historical and modern chant notations are studied and repertoire will be performed in the context of both liturgical service and concert. Membership by audition.

160 Concert Choir **1 credit**
A mixed vocal ensemble that performs a variety of secular and sacred repertoire from the Middle Ages to the 20th century. Choral literature performed includes unaccompanied works as well as works with professional chamber orchestra. Major performances are given each semester and may include exchange/joint concerts with other choirs. Tours locally, nationally and internationally. Three

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rehearsals a week. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement, or a combination of four semesters of 160 and 140.

161 String Ensembles **1 credit**
Formation of string trios, quartets, quintets. Ensembles meet once a week and are coached by a member of the string faculty. Membership by audition.

162 Flute Ensembles **1 credit**
Formation of trios, quartets and other small ensembles, dependent upon personnel available. Ensembles may include piccolo, soprano flutes, alto flute and bass flute. Ensembles meet once a week and are coached by a member of the woodwind faculty. Membership by audition.

163 Clarinet Ensembles **1 credit**
Formation of small ensembles involving various members of the clarinet family. Ensembles meet once a week and are coached by a member of the woodwind faculty. Membership by audition.

164 Saxophone Ensembles **1 credit**
Formation of small ensembles involving various members of the saxophone family. Ensembles meet once a week and are coached by a member of the woodwind faculty. Membership by audition.

165 Woodwind Ensembles **1 credit**
Formation of mixed woodwinds and horn to form quartets and quintets. Ensembles meet once a week and are coached by a member of the woodwind faculty. Membership by audition.

166 Brass Choir **1 credit**
Formation of small and large ensembles using only brass and sometimes percussion instruments. The choir, directed by a member of the brass faculty, gives regularly scheduled public performances. Membership by audition.

167 Percussion Ensembles **1 credit**
A variety of mallet and stick instruments are used to form these ensembles. Ensembles meet once a week and are coached by a member of the percussion faculty. Membership by audition.

169 African Music Ensemble **1 credit**
This course provides a non-Western music performance experience. The repertoire to be studied includes traditional genres such as Adowa, Agbadza, Gota, Kpanlogo, Boboobo, and includes contemporary compositions. Three main areas in the ensemble are drumming, flutes and vocal. No prior experience is necessary for this ensemble. An audition is required.

170 Handbell Choir **1 credit**
This instrumental ensemble performs with both English and Dutch handbells. Repertoire consists of arrangements for two to five octaves from a variety of musical periods and styles as well as music composed specifically for the expanding contemporary handbell literature. Performances include monthly appearances in chapel liturgical settings as well as regular campus and public performances. No previous handbell experience necessary but ability to read music is required. Membership by audition or permission of instructor.

171 Piano Ensembles **1 credit**
Study and performance of duets and two-piano music. One major performance per semester. Membership by audition.

172 Accompanying Ensembles **1 credit**
Qualified pianists have the opportunity to accompany solo vocalists and solo instrumentalists. This is a one-on-one situation for the student and instructor. Membership by audition.

173 Guitar Ensemble **1 credit**
Study and performance of music for multiple guitars from Renaissance through twentieth-century composers including American jazz. Repertoire includes original works, transcriptions, and arrangements. Opportunities provided for students to learn improvisation. Membership by audition.

174 Guitar Chamber Ensemble
The study and performance of chamber music for guitar and diverse instruments. At least one major performance per semester. Membership by audition.
Prerequisite: Ability to read music.

181 Orchestra **1 credit**
Study and performance of music from early Baroque through contemporary. Basic orchestral performance skills and player responsibilities are discussed for ensemble playing. Four major performances a year. Membership by audition.

182 Instrumental Jazz Ensemble **1 credit**
Study and performance of instrumental jazz in various styles with exposure to improvisation. Formal concert is presented each semester, and informal campus appearances occur on a regular basis. Membership by audition.

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183 Jazz Singers **1 credit**
Study and performance of vocal jazz in various styles. Group is limited in size, thus allowing each member to develop independence in singing and microphone technique. Membership by audition.

185 Symphonic Band **1 credit**
Study and performance of original works for wind-band; transcriptions, manuscripts, and solo repertoire with band accompaniment. Three rehearsals per week; regular series of concerts, including regional, national and international tours. Private lessons recommended. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement, or a combination of four semesters in 185 and 186.

186 Symphonic Wind Ensemble **1 credit**
This course is designed for the advanced woodwind, brass and percussion student. A select group of approximately forty musicians studies and performs music primarily written for the wind ensemble genre. Literature studied and performed comes from a diversity of cultures and style periods. The Wind Ensemble gives public performances on a regular basis throughout the school year including regional, national and international tours. Meets three times a week. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement, or a combination of four semesters in 185 and 186.

190 Music Theater Production **1 credit**
Musical and dramatic preparation of a musical show or opera, leading to complete performance with costumes, set and orchestra. Participation by audition.

191 Music Theater Scenes **1 credit**
Musical and dramatic preparation of scenes from musical shows or operas. An informal performance may be presented. Participation by audition.

196 Topics Ensembles **1 credit**
The ensemble(s) will be announced in the annual Class Schedule. Content will vary but will not duplicate existing ensembles.

Performance Studies (MUSP)

Performance studies are generally on an individual basis, although some group lessons are available. A course fee is charged for all performance studies, based on the length of the lesson.

Elective Level

Performance studies on the elective level are available for all students. No audition is required for elective studies. These courses are designed for non-majors who are interested in beginning or continuing study on an instrument or voice. Students wishing to study piano, having little or no previous study on the instrument, are encouraged to register for group lessons. Half-hour or 50-minute lessons are available. Twelve lessons are scheduled each semester. A minimum of six hours a week practice is required. These courses must be taken for credit. They cannot be audited. Performance studies do not fulfill the Fine Arts requirement.

101 Group Piano **1 credit**
This course is designed for students who have little or no piano background. The small group setting includes work on keyboard technique, reading music, transposing, improvising, playing by ear and harmonizing melodies. Groups are limited to eight students and meet for an hour each week.

102 Skills for Piano Proficiency (non-piano majors) **0 credit**
This course teaches the skills required for the piano proficiency exam, which include basic keyboard technique, sight-reading simple melodies, basic accompanying, transposing and harmonizing melodies, scale and arpeggio technique. Students whose principal instrument is other than piano are required to enroll in this course.
Prerequisite: Music major with principal instrument other than piano.

103 Skills for Piano Proficiency (piano majors) **0 credit**
This course is similar to 102, but designed for the piano proficiency exam required of music majors whose principal instrument is piano.

106 Class Piano **1 credit**
Keyboard instruction in an electronic piano laboratory. Course designed for beginners or students with limited experience.

108 Class Voice **1 credit**
Designed for non-music majors who wish to study voice and also for non-vocal music majors who wish to develop their singing in a class situation.

Music

110 Electronic Music Lessons 1 credit

The practical application of contemporary music-making technology is the focus of these lessons. Synthesizers, a digital audio sampler, a multi-track tape deck, and mixing console are used in conjunction with a computer in a state-of-the-art recording studio. New music composition ideas and techniques are presented each week. Students then sign up for hands-on time in the studio to work out assignments.

Prerequisite: Basic computer and music keyboard skills.

121 Harpsichord: elective 1 credit

122 Lute: elective 1 credit

128 Recorder: elective 1 credit

131 Piano: elective 1 credit

133 Voice: elective 1 credit

135 Organ: elective 1 credit

136 Flute: elective 1 credit

137 Oboe: elective 1 credit

138 Clarinet: elective 1 credit

139 Bassoon: elective 1 credit

141 Saxophone: elective 1 credit

144 Trumpet: elective 1 credit

145 French horn: elective 1 credit

146 Trombone: elective 1 credit

147 Euphonium: elective 1 credit

148 Tuba: elective 1 credit

149 Percussion: elective 1 credit

152 Jazz Voice: elective 1 credit

Covers techniques for communicative lyric singing, including repertoire from different eras of jazz. Considers stage presence, microphone technique, vocal inflection and communication with an accompanist or rhythm section. Some theory about lead sheets, improvisation and transcription of solos.

153 Jazz Piano: elective 1 credit

Individual studies with a jazz pianist, developing jazz style and working on improvisation.

Prerequisite: Some facility on the piano.

154 Violin: elective 1 credit

155 Viola: elective 1 credit

156 Cello: elective 1 credit

157 Double Bass: elective 1 credit

158 Guitar: elective 1 credit

159 Harp: elective 1 credit

168 African Drumming: elective 1 credit

Study the art and techniques of both hand and stick drumming in West African traditions. Covers a wide variety of repertoire (Agbadza, Kpanlogo, Adowa, Gota, etc.), including those performed by the African Music Ensemble.

187 Electric Guitar: elective 1 credit

Students will study basic to advanced plectrum and fingerstyle techniques as they apply to the amplified guitar. Other topics will include fretboard theory, improvisation, ensemble performance practice and current technologies in amplification and MIDI applications. Repertoire will include all American popular music styles .

188 Flamenco Guitar: elective 1 credit

Students will study the techniques involved in picado, arpeggio, tremolo, and rasqueado. The course includes intensive study of various rhythms and styles including Sevillanas, Soleareas, Alegrias, Siguiryas, Tango, Bulerias, Tiento, etc., and an introduction to basic flamenco dance and song accompaniment. Students will learn about the Gypsy and Moorish influences on the history of this artform.

Performance Level

Performance studies at the performance level are required of music majors on their principal instrument. An audition before the music faculty is required for performance-level studies. Qualified non-majors also may audition. Twelve 50-minute lessons are scheduled each semester. A minimum of 12 hours a week practice is required. These lessons provide an in-depth study of representative literature for the instrument. Juries and recitals are required of all students taking performance-level studies. See the *Handbook for Music Students*.

Music

221	Harpichord: performance	2 credits
231	Piano: performance	2 credits
233	Voice: performance	2 credits
235	Organ: performance	2 credits
236	Flute: performance	2 credits
237	Oboe: performance	2 credits
238	Clarinet: performance	2 credits
239	Bassoon: performance	2 credits
241	Saxophone: performance	2 credits
244	Trumpet: performance	2 credits
245	French horn: performance	2 credits
246	Trombone: performance	2 credits
247	Euphonium: performance	2 credits
248	Tuba: performance	2 credits
249	Percussion: performance	2 credits
254	Violin: performance	2 credits
255	Viola: performance	2 credits
256	Cello: performance	2 credits
257	Double Bass: performance	2 credits
258	Guitar: performance	2 credits
259	Harp: performance	2 credits

265 Music composition 1 credit

The course aims at developing the student's own imagination and musical style, as well as providing studies for the developing of technical and notational skills. Individual guidance and group meetings. Half-hour sessions.

Prerequisite: 212 and permission of instructor

266 Music Composition 2 credits

Same as 265, but 50-minute sessions.

Prerequisite: 212 and permission of instructor

Music Proficiencies and Recitals (MUSR)

Piano proficiency is required in all of the major emphases.

Recitals are required in all major emphases and in some minor emphases.

Recitals and proficiencies carry no course credit. All MUSR courses are graded on an S-R basis.

200 Piano Proficiency

Required of all majors, piano proficiency should be completed by the end of the second year of study. See the *Handbook for Music Students* for specific details of the proficiency examination.

270 Level I Recital

A Level I recital can be given in any semester. It requires a minimum of 15 minutes of music. A student performing at this level usually will be presented on a program with two or three other students.

290 Jazz Recital

A Jazz recital is required of all students in the Jazz Studies minor. A minimum of five songs is required with one from each of the following categories: standard; ballad; swing; bossa nova, samba or other Latin style; and bop. Brass, winds and singers must be accompanied by piano, bass and drums. Piano and guitar must be accompanied by bass and drums and play one selection as a soloist without the rhythm section. Bassists will be accompanied by piano and drums and must play the melody on all selections. Percussionists will appear with piano and bass, and will be required to play one selection on vibraphone.

350 Level II Recital

A Level II recital can be given in any semester. It requires a minimum of 25 minutes of music. Students performing at this level usually will be presented with one or two other students in the recital.

Prerequisite: 270

400 Festival Orchestra Honors Concert

This concert is presented in the spring semester. Professional musicians from the Twin Cities area are hired to form the orchestra, and students are auditioned in December to perform vocal or instrumental music that originally was intended to be presented with orchestra. Festival Orchestra auditions are open to all full-time St. Thomas undergraduate students and graduate students currently enrolled in performance studies. See the *Handbook for Music Students* for details.

450 Level III Recital

Philosophy

A Level III recital usually is given in the last semester of the student's work. This is a solo recital and requires a minimum of 45 minutes of music.
Prerequisite: 350

Operations Management

See Department of Management in the Division of Business.

Philosophy (PHIL)

Atkinson (chair), Berquist, Coulter, Degnan, Farmer, Hayden-Lemmons, Heaney, Herrman, Hubbard, Kemp, Kronen, Laumakis, Menssen, Piché, Reiter, Stromberg, Sullivan, van Ingen, Winter

The philosophy program offers work on major figures in all periods of the history of philosophy, with special attention to the thought of Aristotle and St. Thomas Aquinas.

The two core requirements, Philosophy of the Human Person and Introductory Ethics, are intended to introduce students to the fundamental philosophical questions about human nature and conduct and to help them develop their ability to reason.

Philosophy Honor Society

Phi Sigma Tau is a society whose objectives are to serve as a means of awarding distinction to students having high scholarship and personal interest in philosophy; to promote student interest in research and advanced study in this field; to provide opportunities for the publication of student research papers of merit; to encourage a professional spirit and friendship among those who have displayed marked ability in this field; and to popularize interest in philosophy among the general collegiate public.

Students are eligible for membership if they have a manifest interest in research and study of philosophy (having completed a minimum of 8 semester credits in the field); hold a cumulative GPA of at least 3.00 in either philosophy or general courses; and have completed at least two semesters of college education.

Major in Philosophy

115 Philosophy of the Human Person

214 Introductory Ethics

Plus one of:

221 Critical Thinking

223 Formal Logic

Plus sixteen credits in philosophy through the ages:

Four credits in ancient philosophy:

200 Introduction to Classical Philosophy

230 Greek Philosophers on the Foundations of Knowledge

320 Aristotelian Logic

Four credits in medieval philosophy:

202 Problems in Medieval Philosophy

270 Minds Without Bodies: Angels

300 Philosophy in Latin Texts

400 Thought of Thomas Aquinas

Four credits in modern philosophy:

232 Modern Philosophy: Descartes to Kant

280 Modern Philosophers on God and Religion

350 Modern Ethical Theory

Four credits in 20th-century philosophy:

302 Christian Philosophy and 20th-Century Controversies

304 Twentieth-Century Thomism

354 Biomedical Ethics

356 Contemporary Social Issues: Life, Death and Sexuality

358 Environmental Ethics

430 The End of Philosophy?

440 Contemporary Issues in the Philosophy of Mind

480 Reason and Belief

Plus:

Sixteen additional credits in Philosophy, four of which must be a major seminar: