DIG 6288 Music and Sound Design for Digital Media 3 Credits
Grading Scheme: Letter Grade
Techniques, tools, and current research in music and sound design for digital media. For digital arts and science non-music majors.
Prerequisite: graduate-level status or consent of instructor.

MUC 5315 Introduction to Electroacoustic Music 3 Credits
Grading Scheme: Letter Grade
Survey of techniques, history, literature, and materials of electroacoustic music.
Prerequisite: MUC 2102 or equivalent.

MUC 6444 Composition of Electronic Music 3 Credits
Grading Scheme: Letter Grade
Experimental electroacoustic art music composition using interactive software and digital recording.
Prerequisite: MUC 4311 or MUC 5315.

MUC 6445 Electroacoustic Music Composition: Digital I 3 Credits
Grading Scheme: Letter Grade
Introduction to direct-digital software synthesis systems through flowcharting, programming, and instrument design. Focuses on using Csound software.
Prerequisite: MUC 4401 or MUC 6444 or consent of instructor.

MUC 6446 Electroacoustic Music Composition: Digital II 3 Credits
Grading Scheme: Letter Grade
Continuation of MUC 6445. Composition and research in direct-digital software synthesis systems. Includes advanced instrument design, algorithmic composition, and interactive digital signal processing.
Prerequisite: MUC 6445 or consent of instructor.

MUC 6625 Jazz Composition and Arranging 3 Credits
Grading Scheme: Letter Grade
Provides graduate instruction in jazz composition and arranging and techniques for commercial song writing. Students will study chord movement, melodic development and composition techniques for various styles of music. Students will complete original compositions and arrangements, contra-facts, sax solis, big band chart and know the basics of string writing.

MUC 6930 Graduate Composition 3 Credits, Max 6 Credits
Grading Scheme: Letter Grade
Composition of chamber works for instrumental and/or vocal ensembles.

MUC 6932 Composition Seminar 1-3 Credits, Max 12 Credits
Grading Scheme: Letter Grade
Identifying problematic techniques in developing compositional craft for research, presentation, and discussion.

MUC 7447 Advanced Seminar in Electroacoustic Music 3 Credits
Grading Scheme: Letter Grade
Composition and research in advanced topics in computer music.
Prerequisite: MUC 6446 or consent of instructor.

MUC 7931 Advanced Graduate Composition 3 Credits, Max 18 Credits
Grading Scheme: Letter Grade
Composition for large instrumental and/or vocal ensembles.

MUC 7936 Seminar in Digital Sound Processing, Control, and Composition 3 Credits
Grading Scheme: Letter Grade
Topics in current research and digital audio theory, languages, algorithms, and applications for electroacoustic music.
Prerequisite: MUC 6646 or consent of instructor.

MUC 6080 Historical and Philosophical Foundations of Music Education 3 Credits
Grading Scheme: Letter Grade
Historical development and philosophy. Compares the U.S. with other countries and cultures. Individuals, associations and institutions that shape the music education program.

MUC 6385 Music in Higher Education 3 Credits
Grading Scheme: Letter Grade
Various aspects and programs of music in higher education for persons who intend to teach in or administer departments of music.

MUC 6399 Creative Thinking in Music 3 Credits
Grading Scheme: Letter Grade
Introducing the study of musical creativity by examining literature in and outside of music, emphasizing the process and its role in teaching/learning. The class explores how the mind works with music to produce creative results. Students engage in activities to explore the creative process and derive applications to K-12 music.

MUE 6931 Instructional Design in Music Education 3 Credits
Grading Scheme: Letter Grade
Explores the ways in which artistic forms of understanding and reflection can be useful in designing and evaluating education programs.

MUE 6497 Public School Orchestral Literature 2 Credits
Grading Scheme: Letter Grade
Survey of materials suitable for public school string classes and orchstras.

MUE 6644 Materials and Methods of String Class Teaching 2 Credits
Grading Scheme: Letter Grade
Survey of materials and methods suitable for public school string classes and orchestras.

MUE 6499 Technology Assisted Music Learning 3 Credits
Grading Scheme: Letter Grade
Exploiting the role of technology in creating, performing, and responding to music, with applications to music learning/participation. A primary emphasis is the development of students' Musical Technological Pedagogical and Content Knowledge (M-TPACK). The technological focus includes notation software, MIDI, instructional programs, digital media, Internet resources, and productivity tools.

MUE 6674 Assessing Music Learning 3 Credits
Grading Scheme: Letter Grade
Providing a foundation in all aspects of assessment in music teaching, from learning theory to practical application of assessment techniques, data management, critical thinking, progress reporting, and portfolio building. Assessment task design in the artistic response modes, item, and rubric development is covered. Students develop a series of assessments.

MUE 6785 Research in Music Education 3 Credits
Grading Scheme: Letter Grade
Materials and specialized techniques of research in music education.

MUE 6790 Capstone Project for Music Education 3 Credits
Grading Scheme: S/U
Completing an original research project that addresses an identified issue or need within the field of music education.
Prerequisite: Advanced standing in the graduate program; MUE 6785 ; permission of instructor

MUE 6931 Instructional Design in Music Education 3 Credits
Grading Scheme: Letter Grade
Explores the ways in which artistic forms of understanding and reflection can be useful in designing and evaluating education programs.
MUE 7045 Seminar in Music Teacher Education 3 Credits  
**Grading Scheme:** Letter Grade  
Examination of philosophical, historical, and contemporary practices in undergraduate and graduate music teacher education. Review of the research literature. Topics will include curricular frameworks, fieldwork models, development of teacher identity, teacher induction, teacher assessment, professional development, and the demands of policy stakeholders.  
**Prerequisite:** Admission to the PhD in music education program.

MUE 7046 Sociology of Music Education 3 Credits  
**Grading Scheme:** Letter Grade  
The purpose of this course is to gain knowledge and understanding of the social factors that impact music education in the United States and around the world.  
**Prerequisite:** Admission to an MM, MME, or PhD program in music.

MUE 7746 Measurement and Evaluation of Music 3 Credits  
**Grading Scheme:** Letter Grade  
Examines methods and techniques for measuring and evaluating learning in music.  
**Prerequisite:** MUS 6685.

MUE 7784 Quantitative Research Methods 3 Credits  
**Grading Scheme:** Letter Grade  
Intended to give students a thorough grounding in quantitative research methods appropriate for music education inquiry. Topics to be covered include quantitative research designs, survey design, data gathering, statistical analysis, and interpretation of results.  
**Prerequisite:** MUE 6785.

MUE 7786 Qualitative Research in Music Education 3 Credits  
**Grading Scheme:** Letter Grade  
The purpose of this course is to further understand and develop the skills required to design, conduct, and report music education research using qualitative approaches. Theoretical frameworks, data analysis procedures, and ethical considerations are examined.  
**Prerequisite:** MUE 6785 or equivalent.

MUE 7924 Doctoral Colloquium in Music Education 0 Credits  
**Grading Scheme:** S/U  
A forum for students to explore the role of research, research paradigms, critical issues, emerging events, scholarly writings, and professional organizations in music education through interaction with prominent speakers, faculty, and each other. A venue for sharing research and navigating the path to establish a scholarly identity and academic career.

MUE 7938 Music Education Seminar 3 Credits  
**Grading Scheme:** Letter Grade  
Contemporary issues and problems in music education. Investigating and planning research relevant to selected problems.

MUE 7940 Internship 1-12 Credits, Max 18 Credits  
**Grading Scheme:** S/U  
A supervised internship for doctoral students in music, arranged to support professional goals and/or the students' cognate studies. The internship provides an opportunity for each student to work in a professional setting in a position that carries responsibility and is of particular interest.  
**Prerequisite:** Graduate standing in music.

MUG 7106 Advanced Graduate Conducting 3 Credits, Max 15 Credits  
**Grading Scheme:** Letter Grade  
For conducting emphasis. Conducting major works for band, orchestra, and chorus. Emphasizes analysis and interpretation.

MUH 5219 Graduate Music History Review 3 Credits  
**Grading Scheme:** Letter Grade  
Credit earned will not apply to the credit-hour requirement of any graduate degree offered in the School of Music.

MUH 5505 Introduction to Ethnomusicology 3 Credits  
**Grading Scheme:** Letter Grade  
Field research. Using oral, written, and media sources. Transcription and analysis. Interpretative techniques.  
**Prerequisite:** consent of instructor.

MUH 5684 Introduction to Historical Musicology 3 Credits  
**Grading Scheme:** Letter Grade  
Critical approaches to the history of the discipline, fundamental concepts and methodologies, and significant musicalological writings representing style periods and conceptual issues.  
**Prerequisite:** successful completion of the complete undergraduate music history sequence; graduate student status; and successful completion of the music history entrance exam or the review course.

MUH 6515 Musics of the World 3 Credits  
**Grading Scheme:** Letter Grade  
Providing students with knowledge and experiences to allow them to accurately distinguish musical characteristics of musics from around the world, identify local examples of diverse musical traditions, explore the methods used in ethnomusicology, and develop approaches to world music pedagogy.

MUH 6526 American Vernacular Music 3 Credits  
**Grading Scheme:** Letter Grade  
Introducing American vernacular music from the 1840s to the recent past, examining the cultural/social history and an analytic study of multiple musical styles. Processes used by vernacular musicians ? playing, improvising, songwriting, collaboration, listening, facility on multiple instruments ? will be explored, as will curricular implications for K/12 settings.

MUH 6545 The Guitar in Latin American Culture 3 Credits  
**Grading Scheme:** Letter Grade  
Cultural view of Latin American peoples through the sounds of the guitar, focusing on the history of modern classical guitar and its role in mediating Iberian and Latin American music.

MUH 6548 Seminar in Caribbean Music 3 Credits  
**Grading Scheme:** Letter Grade  
Examines historical, social, and aesthetic dimensions of Caribbean music and music making.

MUH 6549 Seminar in Brazilian Music 3 Credits  
**Grading Scheme:** Letter Grade  
Examines historical, social, and aesthetic dimensions of Brazilian music and music making.

MUH 6635 Seminar in American Music 3 Credits  
**Grading Scheme:** Letter Grade  
History and literature of American music from the landing of the pilgrims to the present.

MUH 6665 History of Opera 3 Credits  
**Grading Scheme:** Letter Grade  
Historical development of opera and its literature from the Florentine Camerata to the present.
MUH 6671 Seminar in Renaissance Music 3 Credits
Grading Scheme: Letter Grade
Selected topics from the Renaissance era for research and study.

MUH 6672 Seminar in Baroque Music 3 Credits
Grading Scheme: Letter Grade
Selected topics from the Baroque era for research and study.

MUH 6673 Seminar in Classical Music 3 Credits
Grading Scheme: Letter Grade
Selected topics from the Classical era for research and study.

MUH 6674 Seminar in Nineteenth-Century Music 3 Credits
Grading Scheme: Letter Grade
Selected topics from the nineteenth century for research and study.

MUH 6675 Seminar in Twentieth-Century Music 3 Credits
Grading Scheme: Letter Grade
Selected topics from the 20th century for research and study.

MUH 6931 Nationalism in Music 3 Credits
Grading Scheme: Letter Grade
Historical development of nationalist movements in music. Emphasizes the 19th and 20th centuries.

MUH 6935 Special Topics in Music History 3 Credits
Grading Scheme: Letter Grade
Centering around topics of current interest or of special interest to students or instructors. Topics or focus may vary from semester to semester.
Prerequisite: MUH 5219 or passing grade on music history diagnostic exam.

MUH 7411 Medieval and Renaissance Notation 3 Credits
Grading Scheme: Letter Grade
Practical, theoretical, and repertorial study of notation from ca. 1000-1600.

MUH 7938 Musicology Seminar 3 Credits, Max 9 Credits
Grading Scheme: Letter Grade
Contemporary issues and selected topics in musicology.
Prerequisite: MUS 6716.

MUL 6486 Piano Literature 3 Credits
Grading Scheme: Letter Grade
Survey of piano literature from Baroque to present.

MUL 6495 Graduate Organ Literature 3 Credits
Grading Scheme: Letter Grade
An historical survey of the major trends and styles of organ composition from the Renaissance to the present.

MUL 6505 Symphonic Literature 3 Credits
Grading Scheme: Letter Grade
Symphonic Literature

MUL 6555 Survey of Wind Literature 3 Credits
Grading Scheme: Letter Grade
Literature for chamber and larger wind ensembles from Baroque to present.

MUL 6565 Chamber Music Literature 3 Credits
Grading Scheme: Letter Grade
Survey of music literature for chamber ensemble from Baroque to present.

MUL 6645 Choral Literature 3 Credits
Grading Scheme: Letter Grade
Survey of choral music from Renaissance to present.

MUM 6501 Music Production in Commercial Media 3 Credits
Grading Scheme: Letter Grade
Covers a review of music for commercials, Programming Logos, jingles and radio station IDs. It covers the basics of home recording studios, techniques in Logic recording software and using a mixing board. Students will develop compilation tracks and sample media to demonstrate the concepts covered during the course.

MUN 6101 Graduate Ensemble 1 Credit, Max 3 Credits
Grading Scheme: Letter Grade
For graduate students holding positions of leadership and participating in music ensembles.

MUN 6125 Concert Band 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Performance of general and popular band literature.

MUN 6135 Symphonic Band 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Performance of traditional and contemporary band literature.

MUN 6145 Symphonic Wind Ensemble 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Performance of wind ensemble literature.

MUN 6215 University Orchestra 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Standard orchestra literature.

MUN 6315 University Choir 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Advanced choral group providing specialized study performance opportunities for vocally qualified students.

MUN 6325 Women's Chorale 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Vocal training and public performance of standard female chorus repertoire.

MUN 6335 Men's Glee Club 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Vocal training and public performance of standard male chorus repertoire.

MUN 6445 Percussion Ensemble 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Study and performance of ensemble literature for percussion instruments.

MUN 6496 World Music Ensemble 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Rehearsal and performance of folk and traditional music of the world.

MUN 6497 New Music Ensemble 1 Credit, Max 15 Credits
Grading Scheme: Letter Grade
Rehearsal and performance of repertoire for small ensembles written in the 20th and 21st centuries.
Prerequisite: consent of instructor.

MUN 6715 Jazz Band 1 Credit, Max 4 Credits
Grading Scheme: Letter Grade
Standard and experimental jazz ensemble. Jazz laboratory.

MUN 6816 Steel Drum Ensemble 1 Credit, Max 8 Credits
Grading Scheme: Letter Grade
Rehearsal, performance and historical aspects of steel drum.
Prerequisite: consent of instructor.
determined by the student in consultation with his/her supervisor and doctoral committee. The scope and focus of the project will be determined by the student in consultation with his/her supervisor and doctoral committee.

MUR 6206 Survey of Hymnody 3 Credits
Grading Scheme: Letter Grade
Historical development of hymns in liturgical use, the scope of hymnody literature, and the major trends in hymnal literature and editing.

MUR 6705 Sacred Music Literature 3 Credits
Grading Scheme: Letter Grade
The development of congregational and choral song from the early church to the present. Survey of instrumental forms in worship music.

MUS 6685 Psychology of Music 3 Credits
Grading Scheme: Letter Grade
Cultural influences, learning conditions, biological constraints, psychoacoustical phenomena, and musical taste. Measuring and predicting musical taste and ability.

MUS 6716 Methods of Musical Research and Bibliography 3 Credits
Grading Scheme: Letter Grade
Materials and specialized techniques of research in musicology.

MUS 6905 Projects and Problems 1-3 Credits, Max 12 Credits
Grading Scheme: Letter Grade
Approved problems for study and research.

MUS 6910 Supervised Research 1-5 Credits, Max 5 Credits
Grading Scheme: S/U
Supervised Research

MUS 6940 Supervised Teaching 1-5 Credits, Max 5 Credits
Grading Scheme: S/U
Supervised Teaching

MUS 6971 Research for Master's Thesis 1-15 Credits
Grading Scheme: S/U
Research for Master's Thesis

MUS 6973 Individual Project 1-10 Credits, Max 10 Credits
Grading Scheme: S/U
Creative project or graduate recital in lieu of written thesis. Project or recital must be acceptable to the candidate's supervisory committee and to the Graduate School.

MUS 7656 Teaching Music and the Creative Process 3 Credits
Grading Scheme: Letter Grade
Examines the creative process, appropriate pedagogical applications, and curricular implications.
Prerequisite: graduate composition major or consent of instructor.

MUS 7905 Projects and Problems 1-3 Credits, Max 12 Credits
Grading Scheme: Letter Grade
For doctoral students. Approved problems for study and research.

MUS 7951 Individual Project 1-6 Credits, Max 12 Credits
Grading Scheme: S/U
Individual projects for doctoral students in music.
Prerequisite: Graduate standing in music.

MUS 7955 Preparation for Doctoral Project 1-6 Credits, Max 6 Credits
Grading Scheme: S/U
For individual capstone projects for Doctor of Musical Arts students who have not yet passed their comprehensive examination but wish to begin work on their project. The scope and focus of the project will be determined by the student in consultation with his/her supervisor and doctoral committee.

MUS 7956 Doctoral Project 1-6 Credits
Grading Scheme: S/U
For individual capstone projects for Doctor of Musical Arts (DMA) students in music who have passed their comprehensive examination. The scope and focus of the project will be determined by the student in consultation with his/her supervisor and doctoral committee.

MUS 7979 Advanced Research 1-12 Credits
Grading Scheme: S/U
Research for doctoral students before admission to candidacy. Designed for students with a master's degree in the field of study or for students who have been accepted for a doctoral program. Not appropriate for students who have been admitted to candidacy.

MUS 7980 Research for Doctoral Dissertation 1-15 Credits
Grading Scheme: S/U
Research for Doctoral Dissertation

MUT 6051 Graduate Music Theory Review 3 Credits
Grading Scheme: Letter Grade
Review of core materials in preparation for graduate course in music theory.

MUT 6177 Graduate Jazz Theory 3 Credits
Grading Scheme: Letter Grade
Provides graduate instruction in jazz fundamentals, harmony, chord symbols, scales and modes, piano voicings and techniques in memorizing standards. Through completing this course students will have a solid knowledge of how to efficiently teach jazz theory and understand how to operate and manage online jazz theory technology platforms.

MUT 6445 Advanced Counterpoint 3 Credits
Grading Scheme: Letter Grade
Emphasizes advanced harmonic techniques and fugal writing.
Prerequisite: MUT 4411, 4421.

MUT 6531 Figured Bass and Continuo Performance 3 Credits
Grading Scheme: Letter Grade
Theoretical principles and practical application of figured bass realization and continuo performance practice techniques.

MUT 6555 Late Nineteenth- and Twentieth-Century Styles 3 Credits
Grading Scheme: Letter Grade
Analysis of exemplary works of the late 19th and 20th centuries.
Prerequisite: MUT 6629.

MUT 6576 Contemporary Styles 3 Credits
Grading Scheme: Letter Grade
Recent trends in music through score study and analysis, composition exercises, and supplementary readings.
Prerequisite: MUT 6629.

MUT 6617 Approaches to Theoretical Analysis in Music Education 3 Credits
Grading Scheme: Letter Grade
Developing and enhancing skills in analyzing Western classical music, with an emphasis on application to the field of Music Education. Students will synthesize the essential concepts of music theory and analysis through examining selections from the repertoire to expand upon and refine analytical approaches learned in the undergraduate theory curriculum. Course activities will include analysis of music using visual and aural processes.

MUT 6627 Seminar in Reductive Analysis 3 Credits
Grading Scheme: Letter Grade
Advanced study in reductive approach to analysis of music.
Prerequisite: MUT 6629.
MUT 6629 Analytical Techniques 3 Credits
Grading Scheme: Letter Grade
Study of analytical systems and methodology emphasizing style analysis and the integration of all elements of music.

MUT 6751 Pedagogy of Music Theory 3 Credits
Grading Scheme: Letter Grade
Techniques and art of teaching music theory and conditions for effective learning.
Prerequisite: MUT 6629.

MUT 6936 Music Theory Seminar 1-3 Credits, Max 12 Credits
Grading Scheme: Letter Grade
Selected topics from current research for study, presentation, and discussion.
Prerequisite: MUT 6629.

MUT 7316 Advanced Orchestration 3 Credits
Grading Scheme: Letter Grade
Analysis of 19th- and 20th-century compositions for full orchestra. Orchestration of original scores and arrangements for full orchestra.

MUT 7585 Seminar in Musical Style 3 Credits
Grading Scheme: Letter Grade
Analysis of exemplary works from the Medieval period to the early 19th century.
Prerequisite: MUT 6629.

MUT 7760 History of Music Theory 3 Credits
Grading Scheme: Letter Grade
The study of musical theories, primarily through readings, from ancient Greece to the present.

MVK 5156 Improvisational Keyboard Skills and Related Technology 2 Credits
Grading Scheme: Letter Grade
Improvisational skills, electric keyboard technology, and musical styles outside the classical realm.
Prerequisite: upper-division and graduate keyboard majors and minors, or consent of instructor.

MVK 6605 Organ Pedagogy 3 Credits
Grading Scheme: Letter Grade
Principles, methods, and practices currently used in the teaching of organ.

MVO 6250 Secondary Music Performance 1-3 Credits, Max 15 Credits
Grading Scheme: Letter Grade
Offered in piano, voice, organ, harpsichord, historical instruments, conducting, carillon, and all standard band and orchestral instruments.

MVO 6460 Music Performance 3 Credits, Max 9 Credits
Grading Scheme: Letter Grade
Offered in piano, voice, organ, harpsichord, historical instruments, conducting, carillon, and all standard band and orchestral instruments.

MVO 7460 Music Performance 3 Credits, Max 9 Credits
Grading Scheme: Letter Grade
For doctoral students. Offered in piano, voice, organ, harpsichord, historical instruments, conducting, carillon, and all standard band and orchestral instruments.

MVS 6651 String Pedagogy I 3 Credits
Grading Scheme: Letter Grade
Survey of Suzuki violin pedagogy from Unit IA (Pre-Twinkle) through Unit IV (Vivaldi A Minor Concertos).

MVV 6651 Vocal Pedagogy 3 Credits
Grading Scheme: Letter Grade
Study and teaching of vocal techniques.
Prerequisite: SPA 3101 or equivalent.