MEC 470 Introduction to Tribology
Focus is on the fundamentals of tribology, the science of surfaces in relative motion, with an introduction to friction, lubrication, and wear. The basics of tribology science: engineering surfaces, contact mechanics, lubrication theory, wear processes and modeling, wear properties of materials, and tribology test methods. It is expected to be coupled with tribological analysis of mechanical aspects of machine components and bearings. Industrial case studies will be presented to place the topics in context to industry and society.
Prerequisites: MEC 365 and 364
3 credits

MEC 475 Undergraduate Teaching Practicum
Students assist the faculty in teaching by conducting recitation or laboratory sections that supplement a lecture course. The student receives regularly scheduled supervision from the faculty instructor. May be used as an open elective only and repeated once.
Prerequisite: U4 standing; a minimum g.p.a. of 3.00 in all Stony Brook courses and the grade of B or better in the course in which the student is to assist; permission of department
3 credits

MEC 488 Mechanical Engineering Internship
Participation in off-campus engineering practice. Students are required to submit a proposal to the department at the time of registration and two term reports before the end of the semester. May be repeated up to a limit of 12 credits.
Prerequisite: Permission of undergraduate program director
3-9 credits, S/U grading

MEC 490 Topics in Mechanical Engineering
Treatment of an area of mechanical engineering that expands upon the undergraduate curriculum. Topics may include advanced material in a specialty, development of a specialized experimental technique, or a specific area of design. Topics may vary from semester to semester. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisite: U3 or U4 standing in a B.E. degree major; permission of department (course prerequisites vary with topic)
1-5 credits

MEC 491 Topics in Mechanical Engineering
Treatment of an area of mechanical engineering that expands upon the undergraduate curriculum. Topics may include advanced material in a specialty, development of a specialized experimental technique, or a specific area of design. Topics may vary from semester to semester. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisite: U3 or U4 standing in a B.E. degree major; permission of department (course prerequisites vary with topic)
1-5 credits

MEC 492 Topics in Mechanical Engineering
Treatment of an area of mechanical engineering that expands upon the undergraduate curriculum. Topics may include advanced material in a specialty, development of a specialized experimental technique, or a specific area of design. Topics may vary from semester to semester. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisite: U3 or U4 standing in a B.E. degree major; permission of department (course prerequisites vary with topic)
1-5 credits

MEC 495 Professional Engineering Seminar
Prepares the student to enter the workplace as a practicing engineer. Topics include professional ethics, professional activities, professional engineering licensing, patents, seeking entry-level employment, and exposure to the engineering work environment. Aids in preparation for the EIT/FE exam. Includes speakers from a variety of disciplines, within the College and from industry.
Prerequisite: CEAS major; U4 standing
1 credit, S/U grading

MEC 499 Research in Mechanical Engineering
An independent research project under the supervision of a mechanical engineering faculty member. Permission to register requires the agreement of the faculty member to supervise the research and submission of a one-page research proposal. May be repeated but only six credits of research electives may be counted as technical electives.
Prerequisite: Permission of department
0-3 credits

MUS 100-D Introduction to Music
The basic concepts of music such as melody, harmony, rhythm, counterpoint, and form are studied through investigation of the historical and contemporary masterpieces of the Western classical tradition, of various non-Western musics, and of various “popular” traditions. The different styles and types of music are considered not only in light of the cultural values they embody, but also in relation to present-day cultural and musical values. No previous musical training is assumed. Not for credit after MUS 130.
5 credits

MUS 105-G Music Cultures of the World
An introduction to selected musical genres and styles from around the world with an emphasis on music making in relation to the social and cultural practices of various peoples. Not for music major credit.
3 credits

MUS 119-D The Elements of Music
Beginning with the rudiments of music, such as meter, tempo, rhythm, and how to read notes in several clefs, this “hands on” course goes on to examine how music is organized, covering scales, keys, intervals, chords, form, and style in classical music. Students also compose throughout the semester and sharpen their listening skills through attendance at concerts. Serves as prerequisite to many music department courses.
3 credits

MUS 120 Elementary Musicianship
Beginning ear-training, including harmonic, rhythmic and melodic dictation, interval and chord recognition, and sight-singing of diatonic melodies. Intended for students who are not prepared to enter MUS 121 but who aspire to be music majors. May be repeated, but credit counts toward graduation only once. Not for music major credit.
Prerequisite: MUS 119 or 120 or placement by undergraduate musicianship examination
2 credits

MUS 121 Musicianship I
Sight-singing, dictation, and transcription of melodic, harmonic, and rhythmic material.
Prerequisite: Placement by undergraduate musicianship examination (consult department concerning dates)
Corequisites: MUS 122 and 321
2 credits

MUS 122 Beginning Keyboard
Basic keyboard skills, including reading in clefs and rudimentary technical competence.
Prerequisite: Placement by undergraduate keyboard examination
Corequisites: MUS 121 and 321
1 credit

MUS 130-D Sound Structures
Development of strategies for informed listening, analysis, and writing about music. Topics include timbre and sonority, meter and rhythm, melodic design, form, organization of pitch and harmony, and interactions between music and language. Repertory is drawn from a wide range of historical periods and cultural contexts. Considerable emphasis on writing and on acquiring concepts and vocabulary appropriate to diverse types of music.
Prerequisite: Primarily intended for prospective music majors and minors; others with sufficient musical background by permission of instructor.
2 credits

MUS 141 Keyboard Harmony A
Practical studies in music theory through basic keyboard exercises.
Prerequisite: MUS 122
Corequisites: MUS 220 and 321
1 credit

MUS 142 Keyboard Harmony B
Practical studies in music theory through basic keyboard exercises.
Prerequisite: MUS 141
Corequisites: MUS 221 and 323
1 credit

MUS 161 Piano
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 391
2 credits

MUS 163 Harpsichord
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 391
2 credits

MUS 165 Violin
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisite: Audition required
Corequisite: MUS 262
2 credits

MUS 166 Viola
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisite: Audition required
Corequisite: MUS 262
2 credits

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MUS 167 Cello
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisite: Audition required
Corequisite: MUS 262
2 credits

MUS 168 String Bass
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
2 credits

MUS 169 Classical Guitar
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 391
2 credits

MUS 170 Flute
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
2 credits

MUS 171 Oboe
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263
2 credits

MUS 172 Clarinet
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263
2 credits

MUS 173 Bassoon
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263
2 credits

MUS 175 Horn
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
2 credits

MUS 176 Trumpet
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
2 credits

MUS 177 Trombone
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
2 credits

MUS 180 Percussion
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
2 credits

MUS 182 Voice
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 261
3 credits

MUS 187 Other Instruments
A forty-five-minute individual lesson each week, with five hours of practice required. Students are required to play for a jury at the end of each term. Open to music majors and, enrollment permitting, to other students with a serious interest in music. May be repeated.
Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
2 credits

MUS 189 Beginning Jazz Improvisation
Beginning study of jazz theory, nomenclature, and chord-scale relationships as they relate to the playing of improvised jazz solos. In-class performances and transcription analysis are an integral part of the course. May be repeated.
Prerequisite: Audition required
1 credit

MUS 208 Technology in the Arts
A multidisciplinary, hands-on introduction to the concepts and techniques of computer-influenced art, combining art, music, and theatre. Students explore computer creation and manipulation of sounds and images, as well as various ways of combining them. Current creative work using these techniques is studied. Additional hours in Laboratory for Technology in the Arts or Fine Arts SINC site required. This course is offered as MUS 208, ARS 208, and THR 208.
Prerequisite: One 200-level ARS, MUS or THR course
3 credits

MUS 220 Musicianship II
Sight-singing, dictation, and transcription of more complex melodic, harmonic, and rhythmic material, including diatonic chord progressions.
Prerequisite: MUS 121 and 222 and 321
Corequisite: MUS 141 and 322
2 credits

MUS 221 Musicianship III
Advanced sight-singing and dictation, including modal, modulating, and chromatic melodies; chord progressions and diatonic and modulating chorales; and complex rhythms.
Prerequisite: MUS 141 and 220
Corequisite: MUS 142 and 323
2 credits

MUS 261 Stony Brook Chorale
Study and performance of a repertory from the Middle Ages to the present. Grading is based upon attendance. May be repeated.
Prerequisite: Audition required
1 credit

MUS 263 University Wind Ensemble
Study and performance of works for ensembles of woodwinds, brass, and percussion in various combinations. Grading is based upon attendance. May be repeated.
Prerequisite: Audition required
1 credit

MUS 264 Big Band Jazz Ensemble
Study and performance of works for jazz ensemble. Grading is based on attendance. May be repeated.
Prerequisite: Audition required
1 credit

MUS 265 Workshop in Performance
Practice in performance skills in a small group workshop setting under the guidance of a performance instructor. May be repeated.
Prerequisite: Audition required
1 credit

MUS 266 Guitar Workshop
An overview of guitar technique and fingerboard harmony, featuring in-class performance, transcription of tablature systems, and arranging for solo guitar. May be repeated.
Prerequisite: Audition required
1 credit

MUS 267 Jazz Combo
Arranging and extended improvising skills for the small jazz ensemble. Emphasis on in-class performances, transcription assignments, and learning standard jazz compositions. May be repeated.
Prerequisite: Audition required
1 credit

MUS 268 Stony Brook Seawolves Marching Band
The study and performance of music from the marching band repertoire. The course requires attendance at a marching band camp prior to the beginning of the Fall term. Attendance at home games and one away game is also required. Grading is based on attendance. May be repeated for credit.
Prerequisite: must be able to read music
1 credit

MUS 289 Intermediate Jazz Improvisation
Intermediate study of jazz theory, nomenclature, and chord-scale relationships as they relate to the playing of improvised jazz solos. In-class performances and transcription analysis are an integral part of the course. May be repeated.
Prerequisite: Audition required
1 credit
MUS 290 Vocal Repertory
Performance and analysis of works from the vocal repertory. May be repeated.
Prerequisite: MUS 182 or 382
1 credit

MUS 300-H Music, Technology, and Digital Culture
Study of the interactions between music, technology, and culture in popular and concert music since World War I. Issues of production, distribution, and reception, involving such topics as the impact of radio on composition in the 1920s and 1930s, early synthesizers, “beat,” rock music, electronic music, digital sampling and DJs, the MP3 phenomenon, cross-cultural borrowings, gender and technology, the internet, interactivity, and new models of consumption. Not for major credit. 
Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130
3 credits

MUS 301-I Music of the Baroque
The development during the late Renaissance of a new style in Italy and elsewhere is traced through opera and oratorio, cantata and oratorio, concerto, suite, and trio sonata, to its ultimate expression in the works of Handel, Bach, and their contemporaries. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 302-I The Music of J.S. Bach
Study of the vocal and instrumental works of Johann Sebastian Bach, considering the cultural and musical traditions in which they were grounded and their continuing impact on musical developments from the Bach revival of the 19th century to the “authentic” performance practice movement of the 20th century. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 303-I The Music of Beethoven
Study of the symphonic, vocal, and chamber music of Ludwig van Beethoven, one of the pivotal composers of the Western world, through consideration of the cultural and musical context of late 18th- and early 19th-century Europe and of the heroic image of Beethoven in the 20th century. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 304-K Contemporary Traditions in American Music: 1900 to the Present
Study of the development of diverse 20th-century musical traditions in the U.S. from the perspectives of the musical structures and social contexts that define an “American music.” The traditions of jazz, blues, musical theatre, folk music, and popular music are considered, for instance, with respect to such issues as how historical events, race, and gender affect the production and reception of music, how philosophical beliefs shape musical composition, and how technological changes resulted in the music “consumer.” Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 305-G Music in the Romantic Era
The expressive art of the century between the birth of Schubert to the death of Brahms is examined in selected works of these and other figures such as Berlioz, Mendelssohn, Chopin, Schumann, Liszt, Wagner, and Verdi. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 306-G The Symphony
Study of important symphonic works from the 18th century to the present. The course will concentrate on the development of styles from Haydn, Mozart, and Beethoven through the Romantics, Brahms, and Mahler, concluding with the transformation of the symphonic idea in works of Stravinsky and Webern. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 307-I Imaginative Worlds of Opera
Considering opera’s blend of drama, music, spectacle and stage action, the course examines diverse European operatic traditions from a variety of angles, ranging from expressive roles for music to social and cultural values embodied in individual works. Study focuses on outstanding repertory pieces such as Mozart’s Marriage of Figaro, Verdi’s Otello, and Berg’s Wozzeck. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 308-K History of Jazz
Historical survey of jazz styles from their antecedents in the late 19th century to the jazz styles of the 1920s and blues, through New Orleans jazz, swing, bebop, “cool” jazz, “free” jazz, fusion, and Latin styles. Guidance in the appreciation of jazz and related musics, musical analysis of representative works, and demonstrations of improvisation. Jazz as an expression of cultural pluralism. Not for music major credit.
Prerequisite: MUS 101 or 109 or 119 or 130
3 credits

MUS 309-G Music Since 1900
An introduction to the variegated and rapidly changing trends of the last and current centuries, including impressionism, expressionism, modernism, serialism, atonal, atonality and other serialism, chance and texture music, electronic and computer music, as well as styles derived from folk music, jazz, and other forms of popular music. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 310-K Music and Culture in the 1960’s
The music of Bob Dylan, John Cage, the Beatles, Pauline Oliveros, Ornette Coleman, Elliot Carter, John Coltrane, Laura Nyro, and others is studied in conjunction with texts from or criticism of the 1960s. Music and texts are correlated through the topics of chaos, protest, Black culture, technology, the women’s movement, youth culture, and others. Not for music major credit.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 311-J Topics in Non-Western Music
A survey of 20th-century musical styles within a selected non-Western area. Individual genres are examined in terms of their musical features and in their relationships to aspects of life such as religious observance, social relations, issues of ethnic and national identity, migration, and transnational cultural exchange. Seminars on this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130
3 credits

MUS 312-J Music in the Middle East
A survey of traditional and contemporary musics of Turkey, Iran, Israel, and the Arab world. Musics, rural and urban communities are examined both in terms of their structure and style, and in the ways that they relate to aspects of Middle Eastern life such as religious observance, social relations, ethnic and national identity, modernization and emigration. Not for music major credit.
Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130
3 credits

MUS 313-G Cross-Cultural Musics from Stravinsky to World Beat
An investigation into cross-cultural exchanges in Western and non-Western classical and popular musics in the 20th century, exploring the political and social contexts of the role of technology in, and the aesthetic and ethical implications of musical borrowings. Among the topics covered are turn-of-the-century exoticism, uses of folk music by classical composers, mutual borrowings between the West and Indonesia, Middle Eastern music and the West, and Paul Simon and the music of South Africa. Not for music major credit.
Prerequisite: One of the following: MUS 101, 105, 119, or 130
3 credits

MUS 314-G Women Making Music
A study of the contributions made by women to music making in various contemporary and historical cultures of the world, with emphasis on Western traditions. Topics include women in music performance, notation systems, and composers, and women’s roles in relation to men’s; gender implications in musical style; and depictions of women in musical dramas. All types of music are considered: “classical,” rock, pop, folk, jazz, various “fusions,” and non-Western musics such as those from India, China, Indonesia, and the Middle East. This course is offered as MUS 314 and WST 314.
Prerequisite: MUS 101 or 119 or 130
3 credits

MUS 315 The Structural Principles of Music I
An introduction to the language and basic structural concepts of the art of tonal music through the study of such elements as melody, rhythm, harmony, counterpoint, and form; analysis, written exercises, and discussion of theoretical principles. Not for music major credit.
Prerequisite: MUS 119
3 credits

MUS 316 The Structural Principles of Music II
An introduction to the language and basic structural concepts of the art of 20th-century music through the study of such elements as melody, rhythm, harmony, counterpoint, and form; analysis, written exercises, and discussion of theoretical principles. Not for music major credit.
Prerequisite: MUS 315
3 credits

MUS 317 Interactive Performance, Media, and MIDI
Practical and theoretical issues related to interactive performance, combining elements of art, music, theatre, performance art, video, and computer science. Course topics include sound synthesis, video, lighting, alternative input, and MIDI. This hands-on course stresses small experimental-creative laboratory assignments and culminates in final small-group or individual projects. Additional hours in Laboratory for Technology in the Arts or Fine Arts SINC site required. This course is offered as ARS 317, MUS 317 and THR 317. Prerequisite: At least one 200- or 300-level ARS, MUS, or THR studio or performance course.
3 credits

MUS 318 Music and the Moving Image
An investigation of the relationship between music and film and video. Students script, shoot, edit, and create short videos with soundtracks, exploring different aspects of visuals and music. All editing is done digitally. Works may be made for screen, installation, and web presentation.
Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130
3 credits
or performance. Also examines historical and contemporary artistic exploration with such media. Meets in the Laboratory for Technology and the Arts. This course is offered as ARS 318, MUS 318, and THR 318.

Prerequisites: One ARS, MUS, or THR course; familiarity with the use of computers

Advisory Prerequisite: ARS/MUS/THR 208 or ARS/MUS/THR 317 or ARS 225

3 credits

MUS 319-J Music in Latin America

Survey of music originating in Latin America, featuring both a historical overview and in-depth case studies from various parts of the region. Musical types covered may include: the local, traditional, and folkloric styles; the mediated and hybrid styles generally associated with urban youth populations; and music of the Latin American concert repertoire. The music is studied with respect to the ways it has served as a vital means through which to articulate ethnicity, national identity, modernity, and other key aspects of individual and social identity.

Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130

3 credits

MUS 320-G U.S. Popular Music

The study of popular music in the United States. Topics may include popular music in the U.S. since 1945; American popular music of colonial times; and American musical theatre. The course explores such aspects as musical structure and form, the nature of the commercial music industry, and how issues of gender, race, geography, economics, and technology affect the creation, performance, and reception of popular music. Not for music major credit.

Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130

3 credits

MUS 321 Tonal Harmony I

Tonal harmony taught through practice in homophonic writing, including the harmonization of chorales. Students study excerpts from the musical repertoire as it pertains to questions of musical construction.

Corequisites: MUS 121 and 122

3 credits

MUS 322 Tonal Harmony II

Practice in homophonic writing, including the harmonization of chorales, including diatonic harmonies, altered chords, and modulation.

Prerequisites: MUS 121, 122, and 321

Corequisites: MUS 141 and 220

3 credits

MUS 323 Techniques of Music, 1880 to the Present

Study and practice in the techniques used in the late 19th and 20th centuries to organize pitch, rhythm, tone color, and dynamics.

Prerequisites: MUS141, 220, and 322

Corequisites: MUS 142 and 221

3 credits

MUS 331 Musicianship IV

Sight-singing and dictation of complex tonal, modal, and atonal material. Special emphasis on melodic, harmonic, and rhythmic idioms characteristic of 20th-century music.

Prerequisite: MUS 221, 142, and 322

2 credits

MUS 339 Beginning Composition

Individual projects in composition discussed and critiqued in class. Enrollment limited to eight. May be repeated once.

Pre- or Corequisite: MUS 323

3 credits

MUS 340 Introduction to Music Technologies

An introduction to the computer-based technologies that are changing the art of music. Hands-on experience with hard-disk recording and sound manipulation, MIDI, sequencing, notation programs, sound module programming, and using the Web. Exploration of the impact of these technologies on aesthetic choices. Significant time in the computer lab required.

Prerequisites: MUS 130 and 322

3 credits

MUS 350-G Western Music Before 1600

The vibrant traditions of Western music from Gregorian chant and the beginnings of polyphony to the suave motets of Palestina and the expressive madrigals of Monteverdi. Emphasis is on learning to think historically, on development of writing skills, and on cultivation of listening skills.

Prerequisite: MUS 130, 141, 220, and 321

4 credits

MUS 351-I Western Music 1600-1830

Musical traditions in early modern Europe from Monteverdi through Beethoven. Study of diverse genres such as opera, cantata, symphony, and string quartet within their cultural contexts. Focus is on the understanding of historical processes, on academic prose writing, and on comprehension of complex musical structures.

Prerequisites: MUS 321 and 350

4 credits

MUS 352-G Western Music from 1830 to the Present

Western musical traditions from Schubert through David Lang, John Zorn, and Laurie Anderson. Consideration of the central genres of orchestral, vocal, and chamber music and their transformations by various cultural and technological forces. Focus on musical stylistic change and proliferation, and on academic writing about music.

Prerequisite: MUS 322 and 351

4 credits

MUS 355-G Special Topics in Music

Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Prerequisite: One of the following: MUS 101, 105, 106, 119, or 130

3 credits

MUS 361 Piano

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required

Corequisite: MUS 391

4 credits

MUS 363 Harpsichord

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required

Corequisite: MUS 391

4 credits

MUS 365 Violin

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisite: Audition required

Corequisite: MUS 262

4 credits

MUS 366 Viola

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisite: Audition required

Corequisite: MUS 262

4 credits

MUS 367 Cello

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required

Corequisite: MUS 262

4 credits

MUS 368 String Bass

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required

Corequisite: MUS 262 or 263 or 264

4 credits

MUS 369 Classical Guitar

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required

Corequisite: MUS 391

4 credits

MUS 370 Flute

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required

Corequisite: MUS 262 or 263 or 264

4 credits

MUS 371 Oboe

A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons
are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263
4 credits

MUS 372 Clarinet
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263
4 credits

MUS 373 Bassoon
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263
4 credits

MUS 375 Horn
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
4 credits

MUS 376 Trumpet
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
4 credits

MUS 377 Trombone
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
4 credits

MUS 380 Percussion
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
4 credits

MUS 382 Voice
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 261
4 credits

MUS 387 Other Instruments
A one-hour individual lesson each week, with 15 hours of practice required. Open only to students with adequate preparation who demonstrate a professional commitment to the performance of music. Lessons are taught either (a) by a member of the music faculty, (b) by a teaching assistant, or (c) by an approved off-campus teacher. Students are required to play for a jury at the end of each term. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
4 credits

MUS 388 Fundamentals of Accompanying
Development of skills required of an accompanist, including sight-reading and instrumental and vocal accompaniment. Specific accompanying assignments are made throughout the semester. May be repeated.

Prerequisites: Audition required
Corequisite: MUS 262 or 263 or 264
4 credits

MUS 391 Chamber Music
Ensembles formed by students enrolled in MUS 161 to 187 or MUS 361 to 387 Performance Study. Two hours of rehearsal per week under the supervision of a faculty member or graduate assistant. May be repeated.

Corequisite: Enrollment in private lessons, MUS 161 through 187, as appropriate
1 credit

MUS 421 Analysis of Tonal Music
An examination, through the study of selected works, of the action and interaction of harmonic progression, rhythm, meter, motive, texture, and line in defining and articulating tonal structures.

Prerequisite: MUS 322
Corequisite: MUS 331
Advisory Prerequisite: MUS 351
Advisory Corequisite: MUS 352
3 credits

MUS 422 Analysis of Post-Tonal Music
Music to be studied is selected from representative works by Debussy, Bartok, Schoenberg, Stravinsky, Webern, and other composers of the 20th and 21st centuries.

Prerequisite: MUS 421
Advisory Prerequisite: MUS 352
3 credits

MUS 423 Tonal Counterpoint
A study of the art of combining voices under the conditions of tonal harmony as observed in works from Bach through the Romantic composers.

Prerequisite: MUS 322
Advisory Prerequisite: MUS 351
3 credits

MUS 434 Orchestration
The possibilities and limitations of the commonly used instruments, conventions of notation, and practice in scoring for various ensembles.

Prerequisite: MUS 322
Advisory Prerequisite: MUS 323, MUS 360-352
2 credits

MUS 437 Electronic Music
Historical background, musical works, aesthetic concepts and creative approaches to electronic music. Basic acoustics and sound engineering skills; electronic/live sound production, recording, modification, and editing; critical listening, improvisation, timbral design; music concrete and live performance will be included. Studio work includes technical practice and creative assignments. Technical background is not required.

Prerequisite: MUS 321; permission of instructor
3 credits

MUS 439 Composition
Open only to students demonstrating sufficient aptitude and capacity for original work. May be repeated.

Prerequisite: Permission of instructor
Advisory Prerequisite: MUS 329
3 credits

MUS 450 Seminar in the History of Music
Advanced study of a topic in music history for music majors. Topics may include study of major composers, major genres, dramatic music, the relation of music and poetry in song, or an historically or geographically defined musical style. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.

Advisory Prerequisite: MUS 350-352; MUS 322 or 323, depending on topic
2 credits

MUS 475 Undergraduate Teaching Practicum I
Each student receives regularly scheduled supervision from the instructor of the course specified as the forum for the practicum. Responsibilities may include conducting recitation sections of lower-division courses, preparing material for practice and discussion, and helping students with course problems.

Prerequisites: U3 or U4 standing; music major; permission of instructor and department
2 credits, S/U grading

MUS 476 Undergraduate Teaching Practicum II
Each student receives regularly scheduled supervision from the instructor of the course specified as the forum for the practicum. Students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.

Prerequisites: MUS 475; permission of instructor and department
2 credits, S/U grading

MUS 487 Independent Project
Individual study under the guidance of a faculty member leading to a major essay or composition. May be repeated.

Prerequisite: Permission of instructor; approval of department's undergraduate studies committee
0-6 credits

MUS 488 Internship
Internship projects arranged in consultation with a faculty member and an outside agency.

Prerequisite: U3 or U4 standing; 15 credits in music department courses; permission of department
0-6 credits, S/U grading

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PHI 101-G Historical Introduction to Western Philosophy
An introduction to pivotal theories of the Western philosophic tradition. Readings may be drawn from ancient Greek, medieval, and modern classics of philosophy. Topics may include philosophical theories of politics, morality, logic, metaphysics, knowledge, anthropology, art, and religion.
3 credits

PHI 103-B Philosophic Problems (II)
An introduction to philosophy through the analysis of one or more aspects of contemporary life such as technology, war, international relations, families and friendships, or race, class and gender. A variety of texts are used.
3 credits

PHI 104-B Moral Reasoning (II)
An introduction to philosophy through inquiry into the formation, justification, and evaluation of moral judgments. Students are introduced to the major theories and problems of ethics, such as utilitarianism, Kant’s categorical imperative, ethical relativism, egoism, and classical conceptions of the good and virtue. Against this background students engage in discussions of contemporary moral issues.
3 credits

PHI 105-G Politics and Society (II)
An historical introduction to philosophy through an analysis of political theories, theories of action, and styles of political life. Main themes include the relation of the individual to the state, the scope of social responsibility, and the nature of human freedom.
3 credits

PHI 108-B Logical and Critical Reasoning (II)
The principal aim of this course is to help a student acquire the skills of thinking, reading, and writing critically. The student develops a sensitivity to language and argumentation that is applicable to a wide range of situations and subject matters.
3 credits

PHI 109-B Philosophy and Literature in Social Context (III)
The role of literature and philosophy in understanding and critically assessing personal experience and social life. The links among literary texts, philosophical issues, and political and social commitments are explored. Topics include the relations between language and experience, the role of philosophical thinking through literary texts, and the significance of literary expression in different cultural and historical situations. This course is offered as both HUM 109 and PHI 109.
3 credits

PHI 110-B Arts and Ideas (III)
An introduction to the historical and comparative study of the various arts in relation to the philosophical ideas that prevailed at the same time. At least four significantly different historical periods of intense creative activity such as ancient Greece, the Renaissance, the 18th or 19th century in the West, ancient China, T’ang or Sung dynasty China, Heian or Muromachi period Japan, and the contemporary age-are studied in terms of the interconnections between philosophical theorizing and artistic practice.
3 credits

PHI 111-B Introduction to Eastern Philosophy (I)
An introduction to different systems of Eastern philosophy and the main classical texts drawn from Hinduism, Buddhism, Taoism, Confucianism, and Neo-Confucianism. Efforts are made to recover the different modes of knowledge, language, identification, and liberation dealt with in these texts.
3 credits

PHI 200-G Introduction to Ancient Philosophy (I)
Readings and discussion of the major Greek and Roman thinkers, e.g., the pre-Socratics, Plato, Aristotle, the Stoics, and Platonism. Advisory Prerequisite: U2 standing or one course in philosophy.
3 credits

PHI 206-G Introduction to Modern Philosophy (17th and 18th century) (I)
Readings and discussion of the major thinkers of the 17th and 18th centuries, e.g., Descartes, Leibniz, Spinoza, Hobbes, Locke, Berkeley, Hume, and Kant. Advisory Prerequisite: U2 standing or one course in philosophy.
3 credits

PHI 220-C Introduction to Symbolic Logic (II)
This first course in symbolic logic emphasizes the development of systematic techniques for assessing the validity of arguments: truth tables and truth values analysis, Venn diagrams, elementary quantification theory, and deduction in both the propositional calculus and quantification theory. Prerequisite: Satisfaction of entry skill in mathematics requirement.
Advisory Prerequisite: PHI 104-B and one course in philosophy.
3 credits

PHI 247-G Existentialism (I)
Readings in existential philosophy and literature with special emphasis on such themes as alienation, anxiety, nihilism, absurdity, the self, value, death, and immediacy. Existentialist categories are used to interpret contemporary lifestyles and culture. Prerequisites: U2 standing; one course in philosophy.
3 credits

PHI 264-D Philosophy and the Arts (III)
A study of the arts focusing on the nature of the creative process, methods of interpretation, essential differences among the various arts, and the relation of performance to text. Advisory Prerequisite: U2 standing or one PHI, ARH, MUS, or THR course.
3 credits

PHI 277-G Political Philosophy (II)
An inquiry into the function of philosophic principles in political thought and action, with readings drawn from such authors as Plato, Aristotle, Machiavelli, Spinoza, Hobbes, Locke, Kant, Hegel, Mill, and Dewey. Prerequisite: U2 standing or one course in philosophy.
Advisory Prerequisite: PHI 105.
3 credits

PHI 284-G Introduction to Feminist Theory
The social construction of gender and how this construction affects philosophical thought and practice. The course provides an introductory survey of current feminist issues and analyses. It also examines the meaning of feminism for philosophy by examining the effect of introducing a political analysis of gender into a discipline that is supposedly universal and neutral. This course is offered as both PHI 284 and WST 284. Advisory Prerequisite: PHI 102 or U2 course.
3 credits

PHI 285-G The Uses of Philosophy (III)
Introductory study of the bearing of philosophic considerations on the special arts and sciences. Semester Supplements to this Bulletin contain description when course is offered. May be repeated as the topic changes. Advisory Prerequisite: U2 standing or one course in philosophy.
3 credits

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