

**Music and Technology Studies (MTX)****Minor in Music and Technology Studies****Department of Music, College of Arts and Sciences**

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**Music and Technology (MTX)**

The minor in Music and Technology is designed to provide students interested in music, media, and digital technology and the arts, with a foundation specific to the latest developments in music and technology along with a basic background in the history and theory of music. Students in other majors who have interdisciplinary interests will find this minor valuable as preparation for further studies dealing with the arts and culture. Less rigorous than the music major, the minor is not intended to prepare students for advanced study or professional work in music.

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## 1. Basics:

- MUS 119 Elements of Music, or MUS 130 Sound Structures
- MUS 208 Introduction to Art and Technology

Note: Students well-versed in music notation and basic theory (demonstrated by the MUS 119 challenge examination) should take MUS 130 Sound Structures.

## 2. General:

- One course chosen from the following, MUS 101, MUS 105
- and one from the following: MUS 301-314, 319-320

## 3. Specific:

- MUS 341 Sound Design plus one course chosen from the following:
- MUS 317 Interactive Media, MUS 318 Movie Making, MUS 344 Audio Engineering

## 4. Performance: two semesters of one or more of the following:

- MUS 261 Stony Brook Chorale
- MUS 262 University Orchestra
- MUS 263 University Wind Ensemble
- MUS 264 Jazz Ensemble
- MUS 267 Jazz Combo
- MUS 268 Marching Band
- MUS 161-187 Individual lessons
- MUS 391 Chamber Music

(all of the above are by audition only – please note that most instrumental lessons require a co-requisite of an ensemble – please see course descriptions)

5. In lieu of two semesters (2 credits) of performance ensemble, a student may take an additional course from #2 or #3 above or MUS 315.

6. If a Music major wants to also do a minor in Music and Technology he/she must undertake a relevant independent project under faculty supervision, taken as a 3 credit MUS 487 Independent Project.

MTX Faculty

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Faculty information for this program can be found at <http://naples.cc.stonybrook.edu/CAS/music.nsf/pages/faculty>

# MUS

## Music

### MUS 101 - 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.

3 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 109 - D: Rock Music

A study of rock music, including an investigation of its musical constituents--rhythm, form, pitch structure, instrumental texture, and vocal style--and an historical survey beginning with the roots of rock in earlier folk and popular styles and tracing its development from the end of World War II to the present. Special attention is paid to various syntheses of African and European traditions.

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: Audition required*  
*Corequisite: MUS 391 or MUS 388 or MUS 267*

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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Placement by undergraduate keyboard examination*

*Corerequisites for Music majors: MUS 121 and MUS 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: MUS 119 or equivalent. Primarily intended for prospective music majors and others with sufficient musical background as demonstrated by the Theory Placement Exam or by permission of instructor*

3 credits

### MUS 141: Keyboard Harmony A

Practical studies in music theory through basic keyboard exercises. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: MUS 122*  
*Corequisites: MUS 220 and 321*

1 credit

### MUS 142: Keyboard Harmony B

Practical studies in music theory through basic keyboard exercises. This

course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 391 or MUS 267*

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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 262*

2 credits

### **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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 262 or MUS 264 or MUS 267*

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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 391 or MUS 266*

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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required Corequisite:*

*MUS 262 or MUS 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required Corequisite:*

*MUS 262 or MUS 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required Corequisite:*

*MUS 262 or MUS 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required Corequisite:*

*MUS 262 or MUS 263 or MUS 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required*

*Corequisite: MUS 261*

2 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

*Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

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.

This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*

1 credit

### **MUS 208: Introduction to Media Technology**

A survey and hands-on introduction to digital media. Students are introduced to the practical, conceptual, and historical use of computers and related imaging tools in the visual arts through lecture, labs, readings, and project critiques. This course serves as preparation for further study in electronic media and as an opportunity for students in the arts to gain basic computer literacy. Students will develop strategies for combining images and text. Students will then distribute these works on the web. Emphasis is on the conceptual and artistic potential of the technology. No prior computer experience is required. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information. This course is offered as MUS 208, ARS 208, and THR 208.

*Pre- or Corequisite: One ARS, CCS, CSE, ISE, 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 MUS 321*

*Corequisite for Music majors: MUS 141 and MUS 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. Ability to read music is required; advanced sight-reading is not. May be repeated.

*Prerequisite: Audition, held at first class meeting; ability to read music*

1 credit

### **MUS 262: University Orchestra**

Study and performance of works from the repertory of the concert orchestra. Grading is based upon attendance. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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.

*Prerequisite: must be able to read music*

1 credit

### **MUS 290: Vocal Repertory**

Performance and analysis of works from the vocal repertory. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Corequisite: 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, and the rise of 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 chorale, 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*

*Advisory Prerequisite: Completion of D.E.C. categories I and J*

3 credits

### **MUS 305 - G: Music in the Romantic Era**

The expressive art of the century between the birth of Schubert and 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 and early ragtime 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*

*Advisory Prerequisite: Completion of D.E.C. categories I and J*

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, neoclassicism, twelve-tone 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 relationship to aspects of life such as religious observance, social relations, issues of ethnic and national identity, migration, and transnational cultural exchange. Semester supplements to this Bulletin contain specific description when course is offered. May be repeated as the topic changes.

*Prerequisite: One of the following: MUS 101, 105, 106, 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 as composers, performers, and listeners; genres designed for women; 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 both 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 Media, Performance, and Installation**

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, or performance. Also examines historical and contemporary artistic exploration with such media. This course is offered as ARS 317, MUS 317 and THR 317. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite:* One ARS, CCS, CSE, ISE, MUS, or THR course

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

3 credits

### **MUS 318: Movie Making: Shoot, Edit, Score**

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, or performance. Also examines historical and contemporary artistic exploration with such media. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information. This course is offered as ARS 318, MUS 318, and THR 318.

*Prerequisite:* ARS/MUS/THR 208 or ARS 225 or CCS 101

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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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 324 - K: Jazz and American Culture**

An exploration of African American jazz and its importance and representation in American history and culture. We will consider novels, poems, stories, paintings, and photographs with jazz content as well as films by both Hollywood and documentary filmmakers. Special emphasis will be given to the myths that have dominated representations of jazz artists as well as the ways in which jazz artists have inspired artists and writers. This course is offered as both CCS 324 and MUS 324.

*Prerequisite:* MUS 308 or one course in CCS, CLT, or HUM

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 criticized 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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites:* MUS 130 and 322

3 credits

### **MUS 341: Sound Design**

An investigation into the scientific, formal and artistic qualities of sound developed for students who may or may not have had formal musical training. Students will write reviews of sound pieces, create film or game soundtracks, and create sound-based art-works in response to course content, and write a paper on acoustic or psycho-acoustic phenomena. Emphasis is on studio production techniques, history of sound art and basic acoustics. Students will work on Apple computers in the SINC site and LTA. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information. This course is offered as ARS 341, MUS 341, and THR 341.

*Prerequisite:* One ARS, CCS, CSE, ISE, MUS, or THR course

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

3 credits

### **MUS 344: Audio Engineering**

A theoretical examination of the principals of operation of the essential components of the sound recording and reinforcement chain from acoustic venue, through transduction, electronic manipulation and storage, and the reproduction of the acoustic field in various listening environments.

*Prerequisite:* One ARS, CSE, ISE, MUS, or THR course

*Advisory Prerequisite:* ARS/MUS/THR 208

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 Palestrina 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 music stylistic change and proliferation, and on academic writing about music.

*Prerequisite: MUS 322 and 351*  
4 credits

### **MUS 361: Piano**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 391 or MUS 267 or MUS 388*

4 credits

### **MUS 363: Harpsichord**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated.

*Prerequisite: Audition required*  
*Corequisite: MUS 391*

4 credits

### **MUS 365: Violin**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 262*

4 credits

### **MUS 366: Viola**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 262*

4 credits

### **MUS 367: Cello**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 262*

4 credits

### **MUS 368: String Bass**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 262 or MUS 264 or MUS 267*

4 credits

### **MUS 369: Classical Guitar**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 391 or MUS 266*

4 credits

### **MUS 370: Flute**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required*  
*Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

4 credits

### **MUS 371: Oboe**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required*  
*Corequisite: MUS 262 or MUS 263*

4 credits

### **MUS 372: Clarinet**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required*  
*Corequisite: MUS 262 or MUS 263*

4 credits

### **MUS 373: Bassoon**

A sixty minute individual lesson each week, with fifteen 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



qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required Corequisite: MUS 262 or MUS 263*

4 credits

### **MUS 375: Horn**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required Corequisite: MUS 262 or MUS 263 or MUS 264*

4 credits

### **MUS 376: Trumpet**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

4 credits

### **MUS 377: Trombone**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

4 credits

### **MUS 380: Percussion**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see

[www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

4 credits

### **MUS 382: Voice**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisites: Audition required Corequisite: MUS 261*

4 credits

### **MUS 387: Other Instruments**

A sixty minute individual lesson each week, with fifteen 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 qualified students. May be repeated. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: Audition required Corequisite: MUS 262 or MUS 263 or MUS 264 or MUS 267*

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 once. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: MUS 161 or 361*

2 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. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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*

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 434: Orchestration**

The possibilities and limitations of the commonly used instruments, conventions of notation, and practice in scoring for various ensembles. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*Prerequisite: MUS 322*

*Advisory Prerequisite: MUS 323, MUS 350-352*

3 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; musique concrete and live performance will be included. Studio work includes technical practice and creative assignments. Technical background is not required. This course has an associated fee. Please see [www.stonybrook.edu/coursefees](http://www.stonybrook.edu/coursefees) for more information.

*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 and submission of portfolio to Director of Undergraduate Studies*

*Advisory Prerequisite: MUS 339*

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 as the topic changes.

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

3 credits

*Prerequisite:* U3 or U4 standing; 15 credits in music department courses; permission of department

0-6 credits, S/U grading

**MUS 491: Conducting**

Manual technique and the analysis and preparation of scores for performance. May be repeated.

*Prerequisite:* MUS 322; permission of instructor

*Corequisite:* MUS 261 or 262 or 263  
3 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 or discussion, and helping students with course problems.

*Prerequisite:* U3 or U4 standing; music major; permission of instructor and department

3 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

3 credits, S/U grading

**MUS 487: Independent Project**

Individual study (may be an honor's project) under the guidance of a faculty member leading to a significant essay, lecture-recital, or recital with researched program notes.

Independent Projects used to fulfill the upper division elective requirement should be approved by the Undergraduate Studies Committee in the semester prior to the semester in which MUS 487 is undertaken.

*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.