The combined major in physics and music provides a strong foundation in classical and modern physics, including studies of the various physical phenomena including electromagnetism, dynamics, building blocks of matter, energy, and radiation. It also provides students with a solid background in composition for acoustic and electronic instruments and for combined and/or interactive live and digital sources. The combined major allows students to learn how physical principles influence sound production and propagation.

**Program Requirements**

Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

**University-Wide Requirements**

All undergraduate students are required to complete the University-Wide Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements).

**NUpath Requirements**

All undergraduate students are required to complete the NUpath Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/nupath).

**Physics Major Requirements**

**Introductory Physics**

*Physics 1*

- PHYS 1161 Physics 1 5
- and PHYS 1162 and Lab for PHYS 1161

*Physics 2*

- PHYS 1165 Physics 2 5
- and PHYS 1166 and Lab for PHYS 1165

**Intermediate Physics**

*Physics 203*

- PHYS 2303 Modern Physics 4

*Physics 205*

- PHYS 2305 Thermodynamics and Statistical Mechanics 4

*Physics 2371 and 2372*

- PHYS 2371 Electronics 4
- and Lab for PHYS 2371

**Advanced Physics**

*Physics 3600*

- PHYS 3600 Advanced Physics Laboratory 4

*Physics 3602*

- PHYS 3602 Electricity and Magnetism 4

*Physics 5115*

- PHYS 5115 Quantum Mechanics 4

*Physics 5318*

- PHYS 5318 Principles of Experimental Physics 4

**Music Requirements**

**Music Theory and Composition**

*MUSC 1201*

- MUSC 1201 Music Theory 1 4

*MUSC 1202*

- MUSC 1202 Music Theory 2 4

*MUSC 3541*

- MUSC 3541 Music Analysis Seminar 4

*MUST 1301*

- MUST 1301 Introduction to Composition 4

**Music in Context**

|MUSC 1001| Music in Everyday Life| 4
|Contemporary
Complete one course from the following:| |
|---|---|---
|MUSC 2315| History of Electronic Music| 4
|MUSC 2101| Black Popular Music| 4
|MUSC 2308| Principles of Music Literature| 4
|MUSC 2310| Popular Music Since 1945| 4
|MUSC 2316| Historical Traditions: History of the Music Industry| 4
|MUSC 2320| 40,000 Years of Music Technology| 4
|MUSC 2350| Historical Traditions: Music since 1900| 4
|MUSC 3401| Hip Hop in the Music Industry| 4

**Music Technology**

*MUST 1220*

- MUST 1220 Introduction to Music Technology 4

*MUST 2431*

- MUST 2431 Computer Music Fundamentals 4

*MUSC 2350*

- MUSC 2350 Acoustics and Psychoacoustics of Music 4

**Music Technology Electives**

Complete two courses from the following: 8

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|MUST 3540| Special Topics in Music Technology| 4
|MUST 4520| Interactive Music Programming| 4
|MUST 4610| Composition for Electronic Instruments| 4

**Music Technology Capstone**

*MUST 4611*

- MUST 4611 Music Technology Capstone/Senior Recital 4

**Physics/Music Integrative Requirements**

**Integrative Course Requirements**

*MUST 1220*

- MUST 1220 Introduction to Music Technology 4

*MUST 3421*

- MUST 3421 Digital Audio Processing 4

**Physics and Music Combined-Major Credit Requirement**

Complete 94 semester hours in the major.

**Program Requirement**

128 total semester hours required