

LAET Live Audio Engineering Technology

@ TENNESSEE TECH



Curriculum Guide

***Training Students for Careers in
Live Audio/Sound Reinforcement***

A Partnership Program Offered by
The School of Music
and The College of Engineering



Come join us!

1

OUR COMMITMENT TO STUDENTS

We strive to provide students with the most comprehensive education possible so they are well-prepared for careers in the live audio industry. We do this through rigorous coursework in music, mathematics, physical sciences, engineering, and live audio.

2

WHAT MAKES OUR PROGRAM UNIQUE?

Most audio programs train students to work in recording studios, and the vast majority of instruction in these programs takes place in recording studios. Our program focuses the entire curriculum on audio for live events. Artists today make less income from the sale of albums and more income from the sale of concert tickets. To attract larger audiences, live shows have evolved to become stunning displays of technical complexity—requiring sophisticated production crews with higher levels of expertise and training. Industry experts report that the availability of jobs in recording studios has plummeted, while the number of jobs available in the live audio industry has grown sharply.

3

THE BEST OF BOTH WORLDS

The Live Audio Engineering Technology program at Tennessee Tech is the result of a partnership between the School of Music and the College of Engineering. Live Audio majors will earn a B.S. in Music with a concentration in Live Audio Engineering Technology (LAET) and will also earn a minor in Electrical and Computer Engineering (ECE).

4

A NEW NAME

Our Live Audio Program was originally called, “Live Audio Arts and Sciences”. Our new name is “Live Audio Engineering Technology”(LAET)—which more accurately reflects the academic rigor of our program.

5

EXTENSIVE HANDS-ON EXPERIENCE

Live Audio students participate in a vibrant “gig schedule” providing production support for: Tech Jazz Ensembles, The Golden Eagle Marching Band, Tech Choirs, The Bryan Symphony Orchestra, guest artists, and special faculty and student performances.

6

QUESTIONS?

If you have questions about Live Audio Engineering Technology at Tennessee Tech, please feel free to contact the program director, **Dr. Eric L. Harris** at eharris@tntech.edu. Please include your name, the name of the high school you attend, and a contact phone number. You may also call the **School of Music** office at **(931) 372-3161**.



If you're serious about live audio, this is the place for you!



R4 speakers ready for the field.



Drum set miking for marching band.



Console and mix position for marching band.



Moving the generator after half time.



Pals.



New Clair Cohesion® line arrays and subs.

Great sound and great friendships—
what could be better?





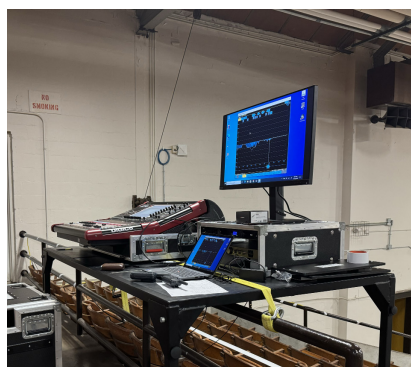
Turning Memorial Gymnasium into a concert hall. Special thanks to Dr. Christy Killman, Chair, Exercise Science.



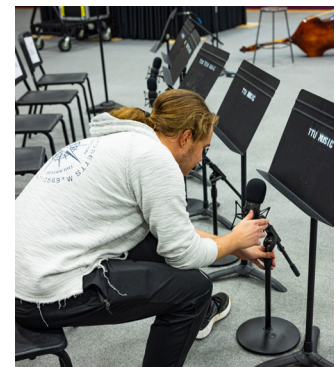
Live Audio students provide sound reinforcement support for the Bryan Symphony Orchestra Children's Concert Series.



Preparing a large diesel generator for a three phase power feed in preparation for the Children's Concerts.



Mix position with computer running Lake® system control processing.



Placing microphones for orchestral brasses.

The Audio Curriculum

FRESHMAN YEAR • INTRODUCTORY LEVEL • YEAR 1

MUSA 2010 • 2 Credit Hours • Fall

Beginner Level A

- Atoms, Elements, and Electrons
- Introduction to Circuits and Electricity
- Cables and Connectors for Signal and Power
- Personal and Crew Safety

MUSA 2020 • 2 Credit Hours • Spring

Beginner Level B

- Essential Math and Measurements Review
- Principles of DC Power
- Magnetism and Electromagnetic Induction
- Tools and Essential Hardware

SOPHOMORE YEAR • INTERMEDIATE LEVEL • YEAR 2

MUSA 3010 • 2 Credit Hours • Fall

Intermediate Level A

- Acoustics Level 1—Basics of Waveforms
- Acoustics Level 2—The Audible Frequency Spectrum, Wave Interaction with Barriers
- Acoustics Level 3—Room Reverb, Room Modes, Overtones, Fourier Analysis/Fourier Synthesis
- Psychoacoustics and Human Hearing Anatomy

MUSA 3020 • 2 Credit Hours • Spring

Intermediate Level B

- Introduction to Microphones
- Microphone Selection and Placement
- Tubes and Transistors—The Path to Solid State
- Reading Schematics
- Essential Elements of the Theater
- Reading Blueprints

JUNIOR YEAR • ADVANCED LEVEL • YEAR 3

MUSA 4010 • 3 Credit Hours • Fall

Advanced Level A

- Principles of AC Power
- Generators
- Power Distribution Systems for Live Events
- Audio for the Marching Arts

MUSA 4020 • 3 Credit Hours • Spring

Advanced Level B

- Power Amplifiers
- Console Architecture, Gain Staging, and Routing
- Channel Equalization, Critical Listening, and Tonality
- Soldering Fundamentals and Test Metering

SENIOR YEAR • PROFESSIONAL LEVEL • YEAR 4

MUSA 4030 • 3 Credit Hours • Fall

Professional Level A

- Point Source and Line Array Speaker Systems
- Introduction to System Tuning
- Networks for Digital Audio
- Dynamics and Digital Effects

MUSA 4040 • 3 Credit Hours • Spring

Professional Level B

- Wireless Systems
- Monitor Systems (Including IEMs)
- Systems Integration (Design, Install, Repair)
- Beginning A Career

In addition to class instruction, LAET majors will be required to work an extensive schedule of live audio production events each semester. These “gigs” serve as our applications laboratory and provide students with numerous opportunities for hands-on learning. Students will be given a gig calendar at the beginning of each semester so that they can plan accordingly. Additionally, students will typically take three to four written tests each semester and will also be required to perform skill demonstrations as part of the semester grade.

LAET students have also been involved in audio consulting and new system design/installation projects for multiple churches in the midstate region. Several of our upper division students mix for weekly services.



Motion Labs power distro.



Sound for Tech Choirs.



The stage is ready for another concert with Tennessee Tech Jazz Ensembles.



Live Audio students provide production support for guest artists. (Jazz clarinetist Doreen Ketchens in sound check.)

Tracks

MATH TRACK OPTIONS

Students in the Live Audio Engineering Technology program will earn a minor in Electrical/Computer Engineering (ECE) as a required component of the degree. Courses in Electrical and Computer Engineering require advanced mathematics—Calculus 1 and Calculus 2.

To maximize the potential for student success in advanced math courses, two approach tracks have been developed. Students entering the Live Audio program will be asked to take the Accuplacer Math Exam. The Accuplacer Math Exam score and the student's ACT score will be used to determine which math track the student should follow.

Math Track 1—is for students who score below 260 on the Accuplacer Math Exam or have an ACT score lower than 27.

Math Track 2—is for students who score a 260–300 on the Accuplacer Math Exam and have an ACT score of 27 or higher.

Both math tracks lead to an earned minor in electrical and computer engineering and do not require extra semesters of coursework prior to graduation. One track is simply for students who are more confident in math and have had advanced mathematics in high school; the other is for students who need a thorough review of algebra and trigonometry before beginning Calculus 1.

MATH TRACK 1

Math Accuplacer Score below 260.
ACT Score below 27.

Math Track 1 is designed for students who need extra preparation in mathematics before taking Calculus 1. This track requires students to take Math 1710 (Pre-Calculus Algebra) in the fall semester of the freshman year, and Math 1720 (Pre-Calculus Trigonometry) in the spring semester of the freshman year. Both classes must be passed with a minimum grade of C before progressing to Calculus 1.

Math Track 1 is the track most commonly chosen by Live Audio majors.

MATH TRACK 2

Math Accuplacer Score of 260–300.
ACT Score of 27 or higher.

Math Track 2 is designed for students who are stronger in mathematics. These students have typically taken calculus in high school—either as an Advanced Placement® course, or as part of a dual enrollment program at a community college. Students who place into Math Track 2 are not required to take Pre-Calculus Algebra or Pre-Calculus trigonometry. Students in Math Track 2 can take Calculus 1 during the fall semester of the freshman year and Calculus 2 during the spring semester of the freshman year.

Any student in the Live Audio program may choose to follow Math Track 1—even if their Accuplacer and ACT scores would allow them to enter Math Track 2.

THE ECE MINOR TRACKS

The minor in Electrical and Computer Engineering (ECE) is a required part of the Live Audio Engineering Technology program. Students will be allowed to choose one of two ECE minors.

ECE Minor Track 1—provides a solid background in the fundamentals of electrical and computer engineering. ECE Minor Track 1 only requires Calculus 1 and Calculus 2. **Students who place in Math Track 1 must follow ECE Minor Track 1.**

ECE Minor Track 2—provides a more specialized minor in Electrical and Computer Engineering that can uniquely benefit future audio engineers. ECE Minor Track 2 requires one additional advanced math course—Differential Equations—to be taken after Calculus 1 and Calculus 2. **Students who place in Math Track 2 may choose ECE Minor Track 2 or ECE Minor Track 1.**

Track 1

(The Most Popular)

LAET COURSE REQUIREMENTS BY SEMESTER/YEAR

Math Track 1
ECE Minor Track 1
ACT: below 27
Accuplacer: below 260

FRESHMAN YEAR

Fall Semester

☐ MUS 1120—Harmony I.....	3
☐ MUS 1130—Aural Techniques I.....	1
☐ MUS 1011—Beginning Class Piano I.....	1
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ ENGL 1010—Writing I ³	3
☐ MATH 1710—Pre-Calc. Algebra ⁴	3 (pre-requisite)
☐ MUSA 2010—Live Audio Introductory A.....	2

Semester Credit Hours Total 15

Spring Semester

☐ MUS 1140—Harmony II.....	3
☐ MUS 1150—Aural Techniques II.....	1
☐ MUS 1012—Beginning Class Piano II ⁹	1
☐ MUS 1030—MAMM ²	3
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ ENGL 1020—Writing II ³	3
☐ MATH 1720—Pre-Calc. Trigonometry.....	3 (pre-requisite)
☐ MUSA 2020—Live Audio Introductory B.....	2

Semester Credit Hours Total 18

SOPHOMORE YEAR

Fall Semester

☐ MUS 3110—Harmony III for LAET.....	2
☐ MUS 3115—Aural Techniques III for LAET.....	1
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ ENGL 2130—English Gen. Ed. Core ⁶	3
☐ MATH 1910—Calculus 1.....	4
☐ MUSA 3010—Live Audio Intermediate A.....	2

Semester Credit Hours Total 14

Spring Semester

☐ MUS 3120—Harmony IV for LAET.....	2
☐ MUS 3125—Aural Techniques IV for LAET.....	1
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ Gen. Ed. Core—Nat. Science ⁷ (PHYS 2010).....	4 (Acoustics)
☐ MATH 1920—Calculus 2.....	4
☐ MUSA 3020—Live Audio Intermediate B.....	2

Semester Credit Hours Total 15

Notes

1. Live Audio students will attend scheduled repertory classes in audio. When the audio repertory class is not in session, students may attend the repertory class for their applied instrument if they would like—but are not required to do so. Students may also perform in studio ensembles with the permission of the Live Audio Program Director and the Applied Studio Professor.
2. MUS 1030, Music Appreciation for Music Majors (MAMM), also satisfies the Humanities/Fine Arts Elective requirement shown in the fall semester of the senior year.
3. English must be taken in consecutive semesters beginning with the fall semester of the freshman year.
4. Students must take a mathematics course no later than the second semester of the freshman year.
5. Live Audio students will receive recital attendance credit for all concerts they work as crew.
6. It is recommended that Live Audio students take American Literature to satisfy the English General Education Core requirement in the fall semester.
7. Live Audio students *must take* Physics 2010 to satisfy this Natural Science General Education Core requirement in the spring semester. *This will be a special Acoustics for Audio Engineers course created by the Physics Department.*
8. Students must make a grade of C or better in all courses assigned to the major degree program.
9. Live Audio students must take Piano I and Piano II. They are not required to take Piano III and Piano IV.

Students who pursue a **double major** in live audio and electrical engineering (ECE) will not be required to perform in a major ensemble once the music portion of their degree(s) has been completed.

JUNIOR YEAR

Fall Semester

☐ MUS 1013—Recital Class ³	0
☐ MUS 3XXX—Private Lesson ¹	1
☐ MUS 3033—Marching Band for LAET	1
☐ Gen. Ed. Core—SPCH 2410 or PC 2500	3
☐ Gen. Ed. Core—Nat. Science ⁸ (CHEM 1010)	4
☐ ECE 2140—Intro to Digital Systems	4
☐ MUSA 4010—Live Audio Advanced A	3
Semester Credit Hours Total	16

Spring Semester

☐ MUS 3020—Music History and Literature II	3
☐ MUS 1013—Recital Class ³	0
☐ MUS 3XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble	1
☐ Gen. Ed. Core—Social/Behavioral Sciences	3
☐ CSC1300—Intro to Problem Solving and Computer Programming	4
☐ ECE 3140—Digital System Design	3
☐ MUSA 4020—Live Audio Advanced B	3
Semester Credit Hours Total	18

SENIOR YEAR

Fall Semester

☐ MUS 1013—Recital Class ³	0
☐ Gen. Ed. Core—Humanities/Fine Arts Elective ²	3
☐ HIST 2010—American History I	3
☐ ECE 2050—Circuits and Electronics I (w/Lab)	4
☐ MUSA 4030—Live Audio Professional A	3
Semester Credit Hours Total	13

Spring Semester

☐ MUS 1013—Recital Class ³	0
☐ MUS 4010—Senior Project ⁴	1
☐ HIST 2020—American History II	3
☐ Gen. Ed. Core—Social/Behavioral Sciences	3
☐ ECE 3130—Microcomputer Systems (w/Lab)	4
☐ MUSA 4040—Live Audio Professional B	3
Semester Credit Hours Total	14

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4. Live Audio students will complete a Senior Project under the supervision of the program director.
5. Students must make a grade of C or better in all courses assigned to the major degree program.
6. Live Audio students *will not be required* to perform a senior recital.
7. Live Audio students who do not finish the degree in eight semesters will be required to perform with a major ensemble each semester they remain in school. They *will not be required* to take an applied lesson.
8. Live Audio students *must take* Chemistry 1010 to satisfy this Natural Science General Education Core requirement in the fall semester.
9. Live Audio students *will not take an applied lesson or play in an ensemble* during the fall or spring semesters of the senior year.



Analog snakes.



Getting a synth ready
for marching band.



Work boxes.



Reviewing a senior
project stage plot.

FRESHMAN YEAR

Fall Semester

☐ MUS 1120—Harmony I.....	3
☐ MUS 1130—Aural Techniques I.....	1
☐ MUS 1011—Beginning Class Piano I ⁸	1
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ ENGL 1010—Writing I ³	3
☐ MATH 1910—Calculus 1 ⁴	4
☐ MUSA 2010—Live Audio Introductory A.....	2
Semester Credit Hours Total	16

Spring Semester

☐ MUS 1140—Harmony II.....	3
☐ MUS 1150—Aural Techniques II.....	1
☐ MUS 1012—Beginning Class Piano II ⁸	1
☐ MUS 1030—MAMM ²	3
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ ENGL 1020—Writing II ³	3
☐ MATH 1920—Calculus 2.....	4
☐ MUSA 2020—Live Audio Introductory B.....	2
Semester Credit Hours Total	19

SOPHOMORE YEAR

Fall Semester

☐ MUS 3110—Harmony III for LAET.....	2
☐ MUS 3115—Aural Techniques III for LAET.....	1
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ ENGL 2130—English Gen. Ed. Core ⁶	3
☐ MATH 2120—Differential Equations.....	3
☐ MUSA 3010—Live Audio Intermediate A.....	2
Semester Credit Hours Total	13

Spring Semester

☐ MUS 3120—Harmony IV for LAET.....	2
☐ MUS 3125—Aural Techniques IV for LAET.....	1
☐ MUS 1013—Recital Class ⁵	0
☐ MUS 1XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ Gen. Ed. Core—Social/Behavioral Sciences.....	3
☐ ECE 2140—Intro to Digital Systems.....	4
☐ MUSA 3020—Live Audio Intermediate B.....	2
Semester Credit Hours Total	14

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LAET COURSE REQUIREMENTS BY SEMESTER/YEAR

Track 2

JUNIOR YEAR

Fall Semester

☐ MUS 1013—Recital Class ³	0
☐ MUS 3XXX—Private Lesson ¹	1
☐ MUS 3033—Marching Band for LAET.....	1
☐ Gen. Ed. Core—SPCH 2410 or PC 2500.....	3
☐ Gen. Ed. Core—Nat. Science ⁸ (CHEM 1010).....	4
☐ CSC 1300—Introduction to Problem Solving and Computer Programming.....	4
☐ MUSA 4010—Live Audio Advanced A.....	3
Semester Credit Hours Total	16

Spring Semester

☐ MUS 3020—Music History and Literature II.....	3
☐ MUS 1013—Recital Class ³	0
☐ MUS 3XXX—Private Lesson ¹	1
☐ MUS 10XX—Major Ensemble.....	1
☐ Gen. Ed. Core—Nat. Science ⁹ (PHYS 2010).....	4 (Acoustics)
☐ ECE 2050—Circuits and Electronics 1 (w/Lab).....	4
☐ MUSA 4020—Live Audio Advanced B.....	3
Semester Credit Hours Total	16

SENIOR YEAR

Fall Semester

☐ MUS 1013—Recital Class ³	0
☐ Gen. Ed. Core—Humanities/Fine Arts Elective ²	3
☐ HIST 2010—American History I.....	3
☐ ECE 3130—Microcomputer Systems (w/Lab).....	4
☐ MUSA 4030—Live Audio Professional A.....	3
Semester Credit Hours Total	13

Spring Semester

☐ MUS 1013—Recital Class ³	0
☐ MUS 4010—Senior Project ⁴	1
☐ HIST 2020—American History II.....	3
☐ Gen. Ed. Core—Social/Behavioral Sciences.....	3
☐ ECE 4140 ¹¹ —Embedded System Design.....	3
☐ MUSA 4040—Live Audio Professional B.....	3
Semester Credit Hours Total	13

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8. Live Audio students *must take* Chemistry 1010 to satisfy this Natural Science General Education Core requirement in the fall semester.
9. Live Audio students *must take* Physics 2010 to satisfy this Natural Science General Education Core requirement in the spring semester. *This will be a special Acoustics course created by the Physics Department.*
10. Live Audio students *will not take an applied lesson or play in an ensemble* during the fall or spring semesters of the senior year.
11. The following classes may be substituted for ECE 4140, depending on the student's interest. Both classes require Differential Equations as a pre-requisite. Choosing either of these options will result in a spring semester credit hour total of 14—rather than the 13 shown above.

CHOOSE ONE:

ECE 3050 Circuits and Electronics II (with Lab)..... 4 Credits
 ECE 3330 Signals and Systems (with Lab)..... 4 Credits

Apply Today!



ADMISSIONS CHECKLIST FOR LIVE AUDIO

Students interested in pursuing the B.S. Music in Live Audio Engineering Technology should:

1. ☐ Be enrolled in your high school band, choir, or orchestra program for a minimum of three consecutive years or have taken private piano, guitar, or voice lessons for a minimum of three consecutive years. The LAET program is housed in the School of Music and students will be registered as music majors.
2. ☐ Contact the program director, Dr. Eric L. Harris, and schedule a campus visit: **eharris@tntech.edu**
3. ☐ Take the ACT. A minimum composite score of 22 is recommended for students seeking to enter the Live Audio Engineering Technology program.
4. ☐ Complete an application for admission to Tennessee Tech University. (The earlier, the better.)
5. ☐ Complete a scholarship application for Tennessee Tech University. **This application is separate from the application for admission to the university.** In order to be eligible for scholarship awards, this application must be completed in ScholarWeb **by December 15.**
6. ☐ Schedule a scholarship audition for the School of Music in the spring semester of your senior year. The dates for these auditions are posted on the School of Music web page: **tntech.edu/music**

PHYSICAL SAFETY

The field of live audio requires physical stamina, working long hours, and the ability to individually lift loads of up to forty pounds to chest height. Students must be able to follow highly specific instructions, to move and think quickly, to accept constructive criticism, to communicate clearly, and to work well with others. Live Audio students will be required to participate in the set-up and tear-down of large, heavy equipment—including staging, line array towers, large road cases, rigging, and cabling. You will also be required to load and unload large trucks as a member of a crew, and to work safely with load control bars, cargo ramps, large rolling platforms, hydraulic lifts, and fueled generators. (Students must be able to climb steep stairs and ladders.)

TIME MANAGEMENT

Live Audio students have the opportunity to work and study in one of the most thrilling academic programs on our campus. Our students spend their time with one foot firmly planted in the School of Music, and the other foot firmly planted the College of Engineering. This requires that students keep a detailed personal calendar with all important dates listed. It also requires that students maintain a disciplined personal study schedule. Course content in music, math, science, and engineering cannot be “crammed” at the last minute. Musicians need to practice every day (five to six hours per week is recommended for LAET students). It is also recommended that time be spent every day studying math and science (reviewing lecture notes, solving extra problems, attending tutoring sessions, or meeting with a study group).

THE EQUIPMENT WE USE

Live Audio majors work with professional, tour-grade audio equipment including:

- Consoles and Digital Snakes by Yamaha and DiGiCo.
- Speaker/Monitor Systems by Clair, JBL, and Yamaha.
- Power Amplifiers by Powersoft, Lab Gruppen, Yamaha, and Crown.
- Power Distribution by Motion Labs and Lex.
- Lake® System Control Processing by Lab Gruppen.
- SMAART® Analysis Software by Rational Acoustics.
- Microphones by AKG, Beyerdynamic, DPA, Earthworks, Neumann, SE, Sennheiser, and Shure.
- Wireless Systems by Shure.
- Cabling Systems by Elite Core, Clair, and Whirlwind.
- Microphone Stands by K&M and Atlas.
- Road Cases by Fiasco, DDM, LM Case, and MTNBox.
- Generators by Yamaha and WhisperWatt.