

## Live Sound Certificate of Achievement - Active

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Department: Broadcast Electronic Media Arts

Approval: December 2017

Effective Semester: Fall 2018

The Live Sound Certificate builds on the Foundations in Broadcast Electronic Media Arts Certificate with an emphasis in the sound reinforcement industry. This certificate provides students with a foundation in the application of live sound in various acoustic spaces. Students learn how to operate and troubleshoot live sound production equipment and are prepared for entry-level work doing live sound for theaters, nightclubs, concert halls, sporting events, conferences, conventions, presentations, and live sound distribution via broadcast, cable, wireless, mobile devices and emerging media.

### Learning Outcomes

Upon completion of this program, students will be able to:

- Plan and execute the sound reinforcement set-up for vocals, acoustic and electronic instruments.
- Configure public address (PA) system for various sized spaces and audience numbers and demonstrate proper placement and distribution of speakers.
- Identify and troubleshoot acoustic requirements of various sized spaces.
- Utilize equalization techniques to remedy any problems with acoustics.
- Plan and configure multi-track recorder and video camera for live event recording.
- Display professionalism and effective application of workforce protocol and communication skills in the live sound industry .

This is the second in a series of stackable certificates. Students must earn a Certificate of Achievement in Foundations in Broadcast Electronic Media Arts before earning this certificate.

Students must complete at least 3 of the courses listed below at City College of San Francisco.

The minimum time for completion of this certificate is 2 semesters. Completion time will vary based on student preparation and number of classes completed per semester.

### Courses Required for the Certificate of Achievement in Live Sound

Course	Units
<b>Required courses:</b>	
BCST 124A - Pro Tools Editing Essentials	2.00
BCST 124B - ProTools Mixing with Plugins	2.00
BCST 125A - Beginning Sound Recording Studio	5.00
BCST 127B - Interconnected Audio Systems	1.00
BCST 128 - Sound Reinforcement	3.00
Total:	13.00
<b>Choose 2 units from the following internship courses:</b>	
BCST 160 - College Internship	1.00 - 2.00
BCST 165 - Industry Internship	1.00 - 2.00
Total:	2.00
<b>Total:</b>	<b>15.00</b>

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