## **Common Course Outline**

#### **MUSC 145**

# Live Sound Reinforcement 3 Credits

### **Community College of Baltimore County**

#### **Description**

**MUSC 145 – Live Sound Reinforcement** provides instruction in the operation of sound reinforcement equipment and techniques for providing appropriate sound reinforcement in a variety of scenarios.

#### 3 Credits

**Co-requisite:** MUSC 140 – Introduction to Audio Technology

#### **Overall Course Objectives**

Upon completion of this course students will be able to:

- 1. demonstrate conceptual and working knowledge of the basic principles of the behavior of sound in various environments through classroom discussion, written assignments, and audio laboratory exercises;
- 2. use appropriate technical and musical terminology in articulating the basic principles of the behavior of sound in various environments;
- 3. set up and operate proficiently a variety of live sound reinforcement equipment, including but not limited to: microphones and other transducers, amplifiers and preamplifiers, effects processors, stage monitoring systems, main speaker systems and mixing boards, in a variety of scenarios ranging from lectures in small rooms to large outdoor music festivals;
- 4. maintain and keep in good working order a variety of live sound reinforcement equipment; and
- 5. manage all aspects of a live sound reinforcement event, including booking, staffing, load-in/out, set-up, rigging, sound check, running, and troubleshooting.

#### **Major Topics**

- I. Live sound theory and applications for both indoors and outdoors
- II. Sound reinforcement equipment
- III. Signal flow in the live sound rig
- IV. Designing live sound reinforcement systems for a variety of events
- V. Electrical considerations for safety and legal specifications
- VI. Troubleshooting, repair, and maintenance of equipment
- VII. Set-ups and applications for microphones and other transducers, amplifiers, mixers, effects processors, speakers, and monitors

- VIII. Remote and live recording
  - IX. Sound crew tasks and responsibilities
  - X. Business strategies, including accounting, equipment repair and replacement, insurance, marketing, and client and employee relations
  - XI. Collaboration with promoters, performers, and rigging and light companies

#### **Course Requirements**

Grading procedures will be determined by the individual faculty member but will include the following:

- 1. Class attendance
- 2. Participation in classroom activities and discussions
- 3. Completion of classroom and homework assignments and tasks
- 4. Written evaluations
- 5. Management of a live sound project or event

#### **Grading/exams**

A minimum of three quizzes, one test, and one project will be included in this course.

Written Assignments: Students are required to use appropriate academic resources.

#### Other Course Information

This course is required for the Music Production and Audio Recording Technology Certificate.

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