IV. MAJOR LEARNING OUTCOMES

Upon completion of this course a student will be able to:

A. Describe, define and integrate the basic principles of the stages of multi-track audio production.
B. Demonstrate competent operation of common professional studio recording equipment, patch bay and the basic sections of the console.
C. Diagram the path of signal flow through a large format console, patch bay and associated components.
D. Describe and diagram proper microphone placement for voice, ensembles and common musical instruments.
E. Categorize, describe and differentiate microphones by type, characteristics, and proper placement.
F. Categorize and describe different types of transducers.
G. Prepare, set up and choose appropriate gain structure, phantom power, signal routing, multi-track recorder settings, and microphone placement for a multiple source recording session.
H. Analyze, assess and choose the appropriate equipment necessary in a recording chain.
I. Prepare and setup a basic headphone mix for talent with at least 3 sources.
J. Describe and diagram the cue system.
K. Classify different types of signal processing and explain appropriate use of inserts and auxiliary system to apply them.
L. Analyze a sound source's recording and apply appropriate EQ when necessary.
M. Prepare and record a stereo mix of a 24 or more track multi-track master including, EQ, dynamic and time-based processing.
N. Describe the basics of Musical Instrument Digital Interface (MIDI).
O. Describe and differentiate amplifiers by type and application.
P. Analyze and discuss the aesthetics in the mixes of different recordings and styles of music.