

## **TV-119: Engineering for Production Students**

### Course Description:

This course is a study of basic television systems and equipment embracing the techniques of camera video operations (registration, color balancing, maintenance, video level control), audio- and videotape systems, switchers, audio consoles, microphones, character generators and time-code editors.

Total Credits: 3.00

### Course Competencies

- 1. Identify Domestic and Foreign Television Standards.**
- 2. Identify Signal Components.**
- 3. Identify basic image criteria.**
- 4. Demonstrate aperture.**
- 5. Identify signal definition.**
- 6. Identify systems.**
- 7. Identify color properties.**
- 8. Identify color signal primaries.**
- 9. Identify sub-carrier systems.**
- 10. Identify digital and analogue formats.**
- 11. Identify sampling and binary systems.**
- 12. Identify transmission systems.**
- 13. Identify camera components.**
- 14. Identify camera electronics.**
- 15. Identify the history of video recording.**
- 16. Identify video recorder system design.**
- 17. Identify electronic types of video recorders.**
- 18. Contrast home and professional units.**
- 19. Identify system electronics.**
- 20. Identify edit systems.**
- 21. Identify edit system electronics.**
- 22. Identify rules and regulations.**
- 23. Identify transmission systems.**
- 24. Identify antenna systems.**
- 25. Identify the history and elements of CATV.**
- 26. Identify the physical layout of CATV systems.**
- 27. Identify the history and elements of satellite systems.**
- 28. Identify transmission systems.**
- 29. Identify a system overview.**
- 30. Identify system layout.**
- 31. Identify color receiver configurations.**
- 32. Identify history and elements of HDTV.**
- 33. Identify performance implementation.**