

Bethlehem Area Vocational-Technical School

Curriculum Packet

50.0602 Video & Media Arts

Video and multimedia personnel create the exciting images and sounds that we've come to expect from TV programs, CD ROM and the Internet by combining sound, video and computer graphics technologies. These occupations require not only the operation of cameras, microphones, mixers and powerful computer systems, but also the creativity and communication skills necessary for working with the clients who depend on these products for their business and information needs.

Instruction includes training in audio and video production, computer imaging and presentation technology. Computer software applications will include computerized editing graphics and animation. Qualified students will take the National Occupational Competency Testing Institute test and receive a certificate.

Careers in Video & Media Arts:

Skilled: Video Camera Assistant, Audio Assistant

Technician: Video Camera Operator, Audio Technician, Broadcast Engineer, Video Systems Engineer, Lighting

Degree Professional: Producer, Director, Editor, Graphics Specialist, Script Writer, Multimedia Programmer

Tuesday, November 22, 2022

Resources: 50.0602 Video & Media Arts

This program is not delivered through one textbook.

Videomaker Magazine

Software:

Music

Garage Band

Logic Pro

Celtx

Google Docs

Google Drive

Presentation Prompter

Final Cut Pro X

Adobe Photoshop

Adobe After Effects

Autodesk Maya

Google Classroom

Hardware:

BMD 4K Studio Cameras

Mackie 1402VLZ Audio Mixer

Behringer MX 9000 Audio Mixer

Tascam Digital Audio Recorder

Apple iMac Computers

Headphones

External Hard Drives

USB Flash Drives

Telex Wireless Intercom System

Echo Audiofire FireWire Converter

M-Audio USB Converter

Alessis Effects Processor

Genie AWG30 Lift

Strand 12 Channel Light Panel

BMC PC 4K Cameras

Sling Studio

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Syllabus: 50.0602 Video & Media Arts

Level I – First Quarter (10-Day Rotation)

Competencies Covered

200 AUDIO

201 Demonstrate knowledge of VU and Peak meters.

202 Demonstrate knowledge of audio mixer.

Assignments & Assessments

ROT001	Media Release	10 points
ROT002	Orientation Papers I	10 points
ROT003	Health History Form	10 points
AUD001	Mixer Crossword	50 points
AUD002	Mixer Worksheet	50 points
AUD003	Mixer Quiz	100 points
AUD007	Audio Production I	200 points

Level I – Second Quarter (45 Days)

Competencies Covered

101 WRITING

102 Write commercial script for audio

200 AUDIO

203 Identify microphones by type, transducer and pickup patterns

204 Demonstrate knowledge of microphone placement

205 Identify connectors

206 Demonstrate knowledge of sound

207 Identify the parts of an audio tape recorder

208 Identify tape speeds

209 Demonstration knowledge of different audio systems

500 MULTIMEDIA

507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

601 Complete radio commercial or PSA

Assignments & Assessments

AUD004	Microphone Worksheet I	50 points
AUD005	Microphone Worksheet II	50 points
AUD006	Microphone Quiz	100 points
AUD010	Audio Production II	200 points
AUD008	Empire of the Air Crossword	50 points
AUD009	Empire of the Air Quiz	100 points
AUD011	Sound Worksheet	50 points
AUD012	Acoustics Worksheet	50 points
AUD013	Audio Production III	200 points
AUD014	Sound & Equipment Crossword	50 points
AUD015	Sound & Equipment Quiz	100 points
AUD016	Audio Production Exam	200 points

Level I – Third Quarter (45 Days)

Competencies Covered

100 WRITING

- 103 Write documentary script for audio
- 104 Write idea with floor plan for studio production
- 105 Write television script with floor plan for studio production

300 STUDIO

- 301 Identify parts of a tripod
- 302 Demonstrate the setup of a tripod with dolly
- 303 Identify different types of cameras
- 304 Identify parts of a camera
- 305 Identify parts of a lens
- 306 Demonstrate knowledge of lens characteristics
- 307 Identify parts of a camera head
- 308 Demonstrate knowledge of camera head parts
- 309 Identify parts of a camera chain
- 310 Demonstrate knowledge of shot composition
- 311 List and explain different camera shots
- 312 Identify and give examples of vectors
- 313 Demonstrate knowledge of psychological closure
- 314 Identify and demonstrate basic camera movements

600 PROJECTS

- 602 Complete radio documentary

Assignments & Assessments

STU001	Tripod Worksheet	50 points
STU002	Tripod Quiz	100 points
STU003	Optics 101 Worksheet	50 points
STU004	Video Composition Worksheet	50 points
STU005	Video Composition Crossword	50 points
STU006	Video Composition Quiz	100 points
STU007	The Signal Path Worksheet	50 points
STU008	The Lens Worksheet	50 points
STU009	The Camera System Crossword	50 points
STU010	The Camera Test	200 points

Level I – Fourth Quarter (45 Days)

Competencies Covered

300 STUDIO

- 315 Demonstrate knowledge of white and black balancing
- 316 Demonstrate knowledge of color temperature
- 317 Identify different types of studio lights
- 318 Demonstrate the triangle lighting principle
- 319 Demonstrate knowledge of production team members

500 MULTIMEDIA

- 507 Demonstrate safe practices when using computer hardware and software
- 508 Demonstrate safe practices when using and maintaining hand tools.

600 PROJECTS

- 603 Complete pre-produced live studio production
- 604 Complete student-produced live studio production

Assignments & Assessments

STU011	Floor Manager Cues Quiz	100 points
STU014	3 Point Lighting Worksheet	50 points
STU012	Studio Production I	200 points
STU013	Studio Production II	200 points
PDP	Career Research Paper	

Level II – First Quarter (45 Days)

Competencies Covered

400 VIDEO

- 401 Operate the video camera
- 402 Edit video footage
- 403 Light the production
- 404 Direct the production
- 405 Produce the production
- 406 Manage audio control of the production
- 407 Demonstrate the setup of a Bescor LED Light Kit
- 408 Identify various gels
- 409 Demonstrate knowledge of the Final Cut video editing system

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

- 601 Complete Short Report

Assignments & Assessments

VID004	Interview Worksheet	50 points
VID002	Computer Editing Worksheet	50 points
VID003	Video Production I	200 points
PDP	Treatment Lesson 1 thru 3, Resume	

Level II – Second Quarter (45 Days)

Competencies Covered

400 VIDEO

- 401 Operate the video camera
- 402 Edit video footage
- 403 Light the production
- 404 Direct the production
- 405 Produce the production
- 406 Manage audio control of the production
- 407 Demonstrate the setup of a Bescor LED Light Kit
- 408 Identify various gels
- 409 Demonstrate knowledge of the Final Cut video editing system

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 502 Create and manipulate images with Adobe Photoshop
- 503 Prepare images for output
- 504 Combine media for video based presentations
- 507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

- 608 Complete Long Report

Assignments & Assessments

VID001	Cutaway Worksheet	50 points
VID006	Lighting Safety Worksheet	50 points
VID007	Video Production II	200 points
VID008	Video Production III	200 points

Level II – Third Quarter (45 Days)

Competencies Covered

400 VIDEO

- 401 Operate the video camera
- 402 Edit video footage
- 403 Light the production
- 404 Direct the production
- 405 Produce the production
- 406 Manage audio control of the production
- 407 Demonstrate the setup of a Bescor LED Light Kit
- 408 Identify various gels
- 409 Demonstrate knowledge of the Final Cut video editing system

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 503 Prepare images for output
- 504 Combine media for video based presentations
- 505 Demonstrate knowledge of Adobe After Effects
- 507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

- 609 Complete Clock Exercise
- 610 Complete AVMA Presentation
- 605 Complete Personal Video

Assignments & Assessments

VID011	Keying, Alpha Channels & Mattes Worksheet	50 points
VID006	Storyboards Worksheet	50 points
VID007	Video Production IV	200 points
PDP	Treatment Lesson 6 and 7	

Level II – Fourth Quarter (45 Days)

Competencies Covered

400 VIDEO

- 401 Operate the video camera
- 402 Edit video footage
- 403 Light the production

- 404 Direct the production
- 405 Produce the production
- 406 Manage audio control of the production
- 407 Demonstrate the setup of a Bescor LED Light Kit
- 408 Identify various gels
- 409 Demonstrate knowledge of the Final Cut video editing system

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 503 Prepare images for output
- 504 Combine media for video based presentations
- 505 Demonstrate knowledge of Adobe After Effects
- 507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

- 606 Complete Personal Profile

Assignments & Assessments

VID007	Bridges Video	200 points
VID010	Demo DVD	200 points

Level III – First Quarter (45 Days)

Competencies Covered

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 506 Demonstrate knowledge of 3D Software
- 507 Demonstrate safe practices when using computer hardware and software

Assignments & Assessments

EFF001	Chapter 1 Worksheet	50 points
EFF002	Chapter 2 Worksheet	50 points
EFF003	Chapter 3 Worksheet	50 points
EFF004	Chapter 4 Worksheet	50 points
PDP	Business Plan Lesson 1	

Level III – Second Quarter (45 Days)

Competencies Covered

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 506 Demonstrate knowledge of 3D Software
- 507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

- 613 Construct a 3D logo using 3D animation software
- 615 Complete a 3D logo animation

Assignments & Assessments

EFF005	Chapter 5 Worksheet	50 points
EFF006	Chapter 6 Worksheet	50 points
EFF007	Chapter 7 Worksheet	50 points
EFF014	Logo Project	200 points

EFF017	Logo Animation	200 points
PDP	Business Plan Lesson 2, Resume	

Level III – Third Quarter (45 Days)

Competencies Covered

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 506 Demonstrate knowledge of 3D Software
- 507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

- 614 Construct a 3D machine using 3D Software
- 616 Complete a 3D machine animation

Assignments & Assessments

EFF008	Chapter 8 Worksheet	50 points
EFF009	Chapter 9 Worksheet	50 points
EFF010	Chapter 10 Worksheet	50 points
EFF015	Bee Model	100 points
EFF017	Bee Animation	200 points
PDP	Business Plan Lesson 3	

Level III – Fourth Quarter (45 Days)

Competencies Covered

400 VIDEO

- 401 Operate the video camera
- 402 Edit video footage
- 403 Light the production
- 404 Direct the production
- 405 Produce the production
- 406 Manage audio control of the production
- 409 Demonstrate knowledge of the Final Cut video editing system

500 MULTIMEDIA

- 501 Operate computer and related peripheral devices
- 503 Prepare images for output
- 504 Combine media for video based presentations
- 506 Demonstrate knowledge of 3D Software
- 507 Demonstrate safe practices when using computer hardware and software

600 PROJECTS

- 607 Complete Personal Profile (Bridges)
- 617 Construct a 3D landscape

Assignments & Assessments

EFF008	Chapter 11 Worksheet	50 points
EFF009	Chapter 12 Worksheet	50 points
EFF010	Chapter 13 Worksheet	50 points
EFF015	Landscape Model	200 points
EFF017	Landscape Animation	200 points
PDP	Business Plan Report	

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50.0602 – Video & Media Arts

Learning Activities

The lesson plans/learning guides, projects and rubrics used to deliver and measure,
the content on the syllabus

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50.0602 – Video & Media Arts

Supplemental Learning Activities*

Students who participate in this program will also have opportunities to participate in the following program and school-sponsored activities:

SkillsUSA: Professional Development Conference, Local Competitions, State Competitions, National Competitions. Students will also be able to participate in yearly events held at BAVTS: Chapter Meetings, fundraising and carnival.

NTHS: Level II and Level III students who have received an “A” in their career and technical program as well as a “B” average at their sending school are eligible to become a member of the BAVTS Chapter of the National Technical Honor Society.

Cooperative Education: Students who have attended six quarters in their career and technical program are eligible to participate in a paid working experience during the PM session of BAVTS. Positions must be available and the student must be recommended by the CTE teacher to be eligible.

Job Shadowing: Students are eligible to visit business and industry partners for one or more days to view the day-to-day operations of this career area.

Internships: Students who have completed six or more quarters of their CTE program are eligible to work for a business and industry partner with the recommendation of the instructor and the availability of assignment.

Field Trips: Students in this program will on occasion attend field trips that expose them to educational experiences within the career field.

College Credit: Video & Media Arts students are eligible for advanced credit through an articulation agreement between Northampton Community College and BAVTS for 3 credits and an articulation agreement between Kutztown University and BAVTS for 6 credits.

Students are recommended to attend post-secondary training upon graduation from BAVTS to ensure success within the career field.