

AUDIO TECHNOLOGY AND SOUND PRODUCTION

Audio Technology and Sound Production with Specializations in:

- Audio and Music Business Management
- Audio Engineering Technology (Articulated to the B.S.E.C.E.T. degree program)
- Music Production
- Sound Production

Associate in Science Degree (CIP# 1650091300)

The Audio Technology and Sound Production A.S. Degree program prepares students for careers in Sound Production and Audio.

The Audio and Music Business Management specialization prepares students for careers in the Music Business, such as Managers for artist, venues, music facilities, music stores, recording studios, small labels, and other Music-related businesses. In addition, this specialization prepares students as Sound Recording Engineers.

The Audio Engineering Technology specialization prepares students for careers as sound recording engineers, audio electronics specialists, sound post-production engineers, sound designers, re-recording mixers, and audio equipment consultants. In addition, students pursuing this track can continue on to the Bachelor of Science in Electrical and Computer Engineering Technology (B.S.E.C.E.T.) degree at Valencia.

The Music Production specialization prepares students for careers as Music Producers and Sound Recording Engineers.

Students enrolled in this specialization should contact the Music Department on East Campus for proper ensemble placement.

The Sound & Music Entrepreneurship specialization required courses can be taken mostly online. This specialization prepares students for careers as entrepreneurs, by focusing on the design, setup, and operation of small project and/or home studios configured for the student's career goals in sound, be it Music, Podcasting, Audio Book Production, and other small-studio ventures. There is a large focus on preparing students to run their own small business successfully.

The Sound Technology specialization prepares students for careers as sound recording engineers, sound post-production engineers, sound designers, re-recording mixers, live sound engineers, audiovisual technicians, and systems integrators/installers, and prepares them for the business challenges these largely free-lance occupations present.

Students are strongly encouraged to consult a Career Program Advisor in the department office for assistance in determining the best education plan for degree completion.

Although scheduling may not always provide for the recommended progression of courses, students should use the foundation, intermediate, and advanced course sequence as a guide in program planning.

All degree-seeking students must satisfy entry testing requirements and satisfactorily complete all mandatory courses in reading, student

success, mathematics, English, and English for Academic Purposes in which the student is placed.

ALL courses with the MUC, MUM and MUT prefix must be completed with a grade of C or better to satisfy program requirements.

Alternative Ways to Earn Credit toward this Degree

Graduates of specific programs at Orange Technical College and Osceola Technical College, as well as other institutions may be eligible to receive college credit for courses in this program. You may also be eligible to receive credit toward this degree if you have earned one of the approved Gold Standard industry certifications or Career Pathways credit. To learn more about Valencia's award of credit options, visit <https://valenciacollege.edu/academics/programs/as-degree/credit-industry-certification-agreements.php> Eligible students should contact the Career Program Advisor in their academic department for more information about the requirements for the award of credit.

College Credit Technical Certificates

The Sound and Music A.S. degree also offers the following college credit certificate programs. These certificates can put you on the fast-track to reaching your career goals. They are designed to equip you with a specialized skill set for entry-level employment or to upgrade your skills for job advancement. Most can be completed in one year or less, and all of the courses in the certificates are embedded in the A.S. degree. You can earn the certificates as you progress through your A.S. Degree or as a separate, stand-alone credential. Click on the Certificate tab at the top of the page for more information about the certificates that are offered.

- Digital Music Production (12 credits) (CIP# 0610020304)
- Audiovisual Production (15 credits) (CIP# 0610020303)
- Audio Electronics Specialist (24 credits) (CIP# 0610020301)

Start Right

Degree-seeking students enrolling at Valencia for the first time will have a limited range of courses from which to choose for their first 18 college-level credits. Within the first 18 college credit hours, you will be required to take ENC1101 (3 credits), and if applicable, SLS 1122 (3 credits) and a mathematics course appropriate to your selected meta-major (3 credits). The remaining courses will be chosen from the General Education Core Courses in humanities (3 credits), science (3 credits), or social science (3 credits), and/or the introductory courses within the A.S. degree programs. For specific courses see the *Foundation Courses* on the "Program Requirements" tab. For course sequencing recommendations, see your Career Program Advisor or create an education plan by logging into Atlas, clicking on the LifeMap tab and clicking My Education Plan.

Potential Careers

- Music Producer/Director
- Technical Director
- Sound Mixer/Designer
- Post-Production Mixer/Editor
- Assistant Audio Engineer
- Sound Designer
- Sound Engineer
- Sound Effects/Dialogue Editor
- Foley editor/ Foley Artist
- Videogame, Virtual Reality and Training/Simulation Sound designer.
- Surround Sound Mixer/Recording Mixer

- Audio Technician
- Audio-Visual Technician

Salary & Earnings Information

For career information related to this program, please visit **O*Net OnLine** (<https://www.onetonline.org/>).

Contacts

Future Students

To learn more about this program, contact Enrollment Services at enrollment@valenciacollege.edu or 407-582-1507 or visit valenciacollege.edu/sound-music/ (<https://valenciacollege.edu/sound-music/>).

Raul Valery, Program Chair, East Campus: 407-582-2882
rvalery@valenciacollege.edu

Jose Aenlle, Professor, East Campus: 407-582-2309
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Joseph McBride, Sr. Instructional Assistant, East Campus: 407-582-2880
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Current Students

Your Career Program Advisor contact information can be found in Atlas. Log into Atlas, click on the Courses tab, and check your Academic Profile information to find a link to your Advisor.

Internship and Workforce Services

If you need assistance with job resources or in locating an internship, please visit: valenciacollege.edu/internship/ (<https://valenciacollege.edu/internship/>).

Audio Engineering Technology Specialization (Articulated to Valencia's Bachelors Degree in Electrical and Computer Engineering Technology)

Program Outcomes

- Configure and use computers for professional audio applications in accordance with professional audio industry standards and practices.
- Configure and use professional audio equipment for sound reinforcement, recording and reproduction in accordance with industry standards and practices.
- Apply principles of music theory in professional music and sound applications.
- Apply the MIDI protocol for professional music production and equipment synchronization applications in accordance with Sound Industry standards and practices.

Foundation Courses

MUM 1002C	FUNDAMENTALS OF SOUND ⁺	3
MUT 1011C	INTRODUCTION TO MUSIC THEORY ⁺	4
SLS 1122	NEW STUDENT EXPERIENCE [~]	3
EET 1214C	INTRODUCTION TO ENGINEERING TECHNOLOGY	3
ENC 1101	FRESHMAN COMPOSITION I ^{++~}	3

MUM 1620	PSYCHOACOUSTICS & CRITICAL LISTENING SKILLS	1
MAC 1105	COLLEGE ALGEBRA ^{++~}	3
Intermediate Courses		
MUM 1648C	FOLEY AND SOUND DESIGN	1
Principles of Electric Circuits		
EET 2036C	PRINCIPLES OF ELECTRIC CIRCUITS ^{Course not yet approved}	3
MUM 1646C	DIALOGUE EDITING AND VOICE PROCESSING [*]	2
CET 2114C	DIGITAL SYSTEMS	3
MUM 2634C	THE DIGITAL AUDIO WORKSTATION	1
ETS 2210C	PRINCIPLES OF PHOTONICS	3
MUM 2661C	SOUND RECORDING I ⁺⁺	3
MUM 2601L	SOUND RECORDING LAB I ⁺⁺	1
MUL 1010	MUSIC APPRECIATION ^{++~}	3
MUM 2623C	MIDI ELECTRONIC MUSIC I ⁺⁺	3
POS 2041	U.S. GOVERNMENT [~]	3
Advanced Forces		
MUM 2666C	SOUND RECORDING II ⁺⁺	3
MUM 2602L	SOUND RECORDING LAB II ⁺⁺	1
Science - Core General Education		
MUM 2678C	MIXING TECHNIQUES	1
MUM 2640C	SOUNDTRACK RERECORDING MIXING - CAPSTONE ⁺⁺	3
EET 2141C	SEMICONDUCTOR DEVICES AND CIRCUITS [*]	3
MUM 2790L	MUSIC PRODUCTION - CAPSTONE ⁺⁺	1
Audio and Electronics Engineering Elective		
or		
Sound & Music Technology Elective(s)		
Total Credit Hours		64

Audio Engineering Technology Specialization Electives

MAC 1114	COLLEGE TRIGONOMETRY ⁺⁺	3
ETS 2542C	PROGRAMMABLE LOGIC CONTROLLERS [*]	3
ETS 2220C	PRINCIPLES OF FIBER OPTICS COMMUNICATION	3
ETS 2230C	PRINCIPLES OF LASERS	3
CET 2123C	FUNDAMENTALS OF MICROPROCESSORS	3

Note

Courses with the prefix CET, EET and ETS are offered only on West Campus.

Audio and Music Business Specialization Program Outcomes

- Configure and use computers for professional audio applications in accordance with professional audio industry standards and practices.
- Apply principles of music theory in professional music and sound applications.
- Apply the MIDI protocol for professional music production and equipment synchronization applications in accordance with Sound Industry standards and practices.

- Apply principles and standards of Business Management in an Audio and/or Music business setting including legal and marketing strategies.
- Produce Audio Masters.
- Produce Soundtracks.

- Apply the MIDI protocol for professional music production and equipment synchronization applications in accordance with Sound Industry standards and practices.

Foundation Courses

MUM 1002C	FUNDAMENTALS OF SOUND ⁺	3
MUT 1011C	INTRODUCTION TO MUSIC THEORY ⁺	4
TPA 1380	SURVEY OF ENTERTAINMENT TECHNOLOGY	3
or SLS 1122	NEW STUDENT EXPERIENCE	
ENC 1101	FRESHMAN COMPOSITION I ^{*+}	3
MUM 1620	PSYCHOACOUSTICS & CRITICAL LISTENING SKILLS	1
GEB 1011	INTRODUCTION TO BUSINESS	3
Mathematics	See Gen. Ed. Core Requirements ^{+~}	3

Intermediate Courses

MUM 2661C	SOUND RECORDING I ^{*+}	3
MUM 2634C	THE DIGITAL AUDIO WORKSTATION	1
MUM 2601L	SOUND RECORDING LAB I ^{*+}	1
MUM 2623C	MIDI ELECTRONIC MUSIC I ^{*+}	3
MUM 1646C	DIALOGUE EDITING AND VOICE PROCESSING ^{*+}	2
MUM 2720	Business of Music	3
MUL 1010	MUSIC APPRECIATION ^{+~}	3
POS 2041	U.S. GOVERNMENT [~]	3
APA 1111C	COLLEGE ACCOUNTING	3
MUM 1648C	FOLEY AND SOUND DESIGN	1
Science	See Gen. Ed. Core Requirements [~]	3

Advanced Courses

MUM 2666C	SOUND RECORDING II ^{*+}	3
MUM 2602L	SOUND RECORDING LAB II ^{*+}	1
SBM 1000	SMALL BUSINESS MANAGEMENT	3
MAR 2011	PRINCIPLES OF MARKETING [*]	3
MUM 2721	BUSINESS OF MUSIC II: ENTREPRENEURSHIP AND FREELANCING [*]	3
MUM 2640C	SOUNDTRACK RERECORDING MIXING - CAPSTONE ^{*+}	3
MUM 2790L	MUSIC PRODUCTION - CAPSTONE ^{*+}	1
MUM 2678C	MIXING TECHNIQUES	1

Total Credit Hours 64

Music Production Specialization

Program Outcomes

- Configure and use computers for professional audio applications in accordance with professional audio industry standards and practices.
- Configure and use professional audio equipment for sound reinforcement, recording and reproduction in accordance with industry standards and practices.
- Apply principles of music theory in professional music and sound applications.

Foundation Courses

MUM 1002C	FUNDAMENTALS OF SOUND ⁺	3
MUT 1111	MUSIC THEORY I ^{+~}	3
MUT 1241C	SIGHT SINGING AND EAR TRAINING I ⁺	1
TPA 1380	SURVEY OF ENTERTAINMENT TECHNOLOGY	3
or SLS 1122	NEW STUDENT EXPERIENCE	
ENC 1101	FRESHMAN COMPOSITION I ^{*+}	3
MUM 1620	PSYCHOACOUSTICS & CRITICAL LISTENING SKILLS	1
MUT 1112	MUSIC THEORY II ^{*+}	3
MUT 1242C	SIGHT SINGING AND EAR TRAINING II ^{*+}	1
MVK 1111C	PIANO CLASS FOR MUSIC MAJORS 1	1

Intermediate Courses

MUM 2661C	SOUND RECORDING I ^{*+}	3
MUM 2634C	THE DIGITAL AUDIO WORKSTATION	1
MUM 2601L	SOUND RECORDING LAB I ^{*+}	1
MUM 2623C	MIDI ELECTRONIC MUSIC I ^{*+}	3
MUL 1010	MUSIC APPRECIATION ^{+~}	3
POS 2041	U.S. GOVERNMENT [~]	3
MUT 2116	MUSIC THEORY III ^{*+}	3
MUT 2246C	SIGHT SINGING AND EAR TRAINING III ^{*+}	1
Mathematics	See Gen. Ed. Core Requirements ^{+~}	3
MUC 2000C	COMPOSITION AND SONGWRITING I AND II [*]	2
MUN 2004	COMMERCIAL MUSIC ENSEMBLE	1

Advanced Courses

MUM 2666C	SOUND RECORDING II ^{*+}	3
MUM 2602L	SOUND RECORDING LAB II ^{*+}	1
MUM 2624C	MIDI AND ELECTRONIC MUSIC II ^{*+}	3
MUM 2678C	MIXING TECHNIQUES	1
MUM 2790L	MUSIC PRODUCTION - CAPSTONE ^{*+}	1
Take twice		1
MUT 2117	MUSIC THEORY IV ^{*+}	3
MUT 2247C	SIGHT SINGING AND EAR TRAINING IV ^{*+}	1
Science	See Gen. Ed. Requirements	3
Sound & Music Technology Electives		4

Total Credit Hours 64

Sound Production Specialization

Program Outcomes

- Configure and use computers for professional audio applications in accordance with professional audio industry standards and practices.
- Configure and use professional audio equipment for sound reinforcement, recording and reproduction in accordance with industry standards and practices.
- Apply principles of music theory in professional music and sound applications.

- Apply the MIDI protocol for professional music production and equipment synchronization applications in accordance with Sound Industry standards and practices.
- Apply principles of acoustics and electricity in professional audio applications.
- Produce audio masters.
- Produce soundtracks.
- Produce Sound deliverables according to AES, ITU, EBU and AMPTE standards.

Foundation Courses

MUM 1002C	FUNDAMENTALS OF SOUND ⁺	3
MUT 1011C	INTRODUCTION TO MUSIC THEORY ⁺⁺	4
TPA 1380	SURVEY OF ENTERTAINMENT TECHNOLOGY	3
or SLS 1122	NEW STUDENT EXPERIENCE	
ENC 1101	FRESHMAN COMPOSITION I ^{+*~}	3
MUM 1620	PSYCHOACOUSTICS & CRITICAL LISTENING SKILLS	1
MUM 1660L	LOCATION SOUND ⁺	1
MUM 1648C	FOLEY AND SOUND DESIGN	1
Mathematics	See Gen. Ed. Requirements ^{+~}	3

Intermediate Courses

MUM 2661C	SOUND RECORDING I ^{*+}	3
MUM 2634C	THE DIGITAL AUDIO WORKSTATION	1
MUM 2601L	SOUND RECORDING LAB I ^{*+}	1
MUM 2623C	MIDI ELECTRONIC MUSIC I ^{*+}	3
MUL 1010	MUSIC APPRECIATION ^{+~}	3
POS 2041	U.S. GOVERNMENT [~]	3
MUM 1646C	DIALOGUE EDITING AND VOICE PROCESSING ^{*+}	2
DIG 2282C	VISUAL MEDIA ESSENTIALS	3
MUM 1662C	LIVE SOUND TECHNIQUES ^{*+}	3
MUM 2632C	AUDIO SYSTEMS DESIGN AND MAINTENANCE	2
Science	See Gen. Ed. Core Requirements	3

Advanced Courses

MUM 2666C	SOUND RECORDING II ^{*+}	3
MUM 2602L	SOUND RECORDING LAB II ^{*+}	1
MUM 2637C	INTRODUCTION TO VIDEOGAME AND VR SOUND	2
MUM 2678C	MIXING TECHNIQUES	1
MUM 2645C	MASTERING TECHNIQUES	1
MUM 2640C	SOUNDTRACK RERECORDING MIXING - CAPSTONE ^{*+}	3
MUM 2790L	MUSIC PRODUCTION - CAPSTONE ^{*+}	1
Sound Production Electives		6

Total Credit Hours 64

+ This course must be completed with a grade of C or better.

* This course has a prerequisite; check description in Valencia catalog.

~ This is a general education course.

< Denotes that this course is only offered in the Fall Term.

> Denotes that this course is only offered in the Spring Term.

Sound & Music Technology Electives

DIG 2282C	VISUAL MEDIA ESSENTIALS	3
FIL 1420	INTRODUCTION TO THE FILM PROCESS	3
MUM 2942	INTERNSHIP IN SOUND AND MUSIC TECHNOLOGY	1-4
MUO 2001	OPERA AND MUSIC THEATRE WORKSHOP	2
TPA 2252C	INTRODUCTION TO AUDIO VISUAL TECHNOLOGY	3

Any course(s), excluding MUM 2630C and MUM 2670C, with a MUM, MUN or MV_ prefix not already used to satisfy program requirements in any of the specializations, and for which student satisfies prerequisites and/or corequisites.

Notes:

Specialized program courses are offered on the East Campus and may not be offered every session.

Students wishing to transfer credits from this program to another institution must accept responsibility for securing approval from the transfer institution for acceptance of this degree.

Audio Electronics Specialist

Technical Certificate

This program prepares students to be highly trained technical personnel to address the needs of local industry for technicians capable of operating, installing, maintaining, and troubleshooting professional Audio equipment, as well as, to perform sales, servicing, and training of operators of audio equipment.

Program Outcomes

- Demonstrate Employability Skills
- Demonstrate set-up and configuration of a computer for audio applications.
- Use principles of Acoustics and Electricity in professional audio applications.
- Demonstrate understanding of basic reproduction, reinforcement and recording audio equipment.

MAC 1105	COLLEGE ALGEBRA (This course requires either passing a placement assessment, or taking MAT 1033C as a prerequisite.) ^{+*~}	3
MUT 1011C	INTRODUCTION TO MUSIC THEORY	4
Or		
MUT 1241C & MUT 1111	SIGHT SINGING AND EAR TRAINING I and MUSIC THEORY I	
MUM 1002C	FUNDAMENTALS OF SOUND	3
SLS 1122	NEW STUDENT EXPERIENCE	3
MUM 1620L		1
EET 1214C	INTRODUCTION TO ENGINEERING TECHNOLOGY	3
MUM 2623C	MIDI ELECTRONIC MUSIC I	3
EET 1015C	FUNDAMENTALS OF DC CIRCUITS	3

Any course from the approved electives within the A.S. in Sound and Music Technology program

Total Credit Hours 24

+ This course must be completed with a grade of C or better.

* This course has a prerequisite; check description in Valencia catalog.

~ This is a general education course.

Digital Music Production

Technical Certificate

This program prepares students for employment in music production occupations or provides supplemental professional training for persons previously or currently employed in this field. The content includes, but is not limited to, instruction that prepares individuals for positions such as music directors, singers, composers, and MIDI music sequencers.

Program Outcomes

- Demonstrate set-up and configuration of a computer for audio applications.
- Demonstrate employability skills.

TPA 1380	SURVEY OF ENTERTAINMENT TECHNOLOGY	3
or SLS 1122	NEW STUDENT EXPERIENCE	
MUT 1011C	Introduction to Music Theory	
or		
MUT 1111	Music Theory I	
And		
MUT 1241C	Sightsinging and Ear Training I	4
MUM 2623C	MIDI ELECTRONIC MUSIC I	3
MUM 1620	PSYCHOACOUSTICS & CRITICAL LISTENING SKILLS	1
Choose a one credit course from the approved electives in the A.S. in Sound And Music Technology program.		1
Total Credit Hours		12

Audio Technology and Sound Production - Audiovisual Production

Technical Certificate

This program prepares students for careers in the field of professional audiovisual production by providing students with theoretical and classroom experience that closely parallels on-the-job activities. The program provides a technical understanding of acoustics, audio devices, optics and projectors, as well as hands-on experience in the design, setup, and operation of technical systems in the areas of live sound and audiovisual presentations.

Program Outcomes

- Demonstrate setup and configuration of a computer for audio applications.
- Use principles of acoustics and electricity in professional audio applications.
- Demonstrate Employability skills

TPA 1380	SURVEY OF ENTERTAINMENT TECHNOLOGY	3
or SLS 1122	NEW STUDENT EXPERIENCE	
MUT 1011C	INTRODUCTION TO MUSIC THEORY	4
Or		
MUT 1111 & MUT 1241C	MUSIC THEORY I and SIGHT SINGING AND EAR TRAINING I	4
MUM 2623C	MIDI ELECTRONIC MUSIC I	3

MUM 1620	PSYCHOACOUSTICS & CRITICAL LISTENING SKILLS	1
MUM 1002C	FUNDAMENTALS OF SOUND	3
Choose any one credit course from the approved electives for the A.S. in Sound and Music Technology		1
Total Credit Hours		15

- * This course has a prerequisite; check description in Valencia catalog.
- + This course must be completed with a grade of C or better.

Notes:

All certificate courses are offered on the East Campus.

Specialized courses may not be offered every session or on every campus.