SOUND AND MUSIC TECHNOLOGY

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

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, in which an Audio and Electroacoustics Systems concentration is offered.

The Sound Technology specialization prepares students for careers as Sound Recording Engineers, Sound Post-production Engineers, Sound Designers, Re-Recording Mixers, Live Sound Engineers, Audio-Visual technicians and systems integrators/installers, and prepares them for the business challenges these largely free-lance occupations present.

Students enrolled in the Music Performance and Sound specialization should contact the Music Department on East Campus for proper Ensemble and Performance placement.

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

Although scheduling may not always provide for the following 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.

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 valenciacollege.edu/asdegrees/credit_octc.cfm (http://valenciacollege.edu/asdegrees/transferagreements.cfm). 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# 0650091302)
- Audio Visual Production (15 credits) (CIP# 0650099901)
- Audio Electronics Specialist (24 credits) (CIP# 0615030309)

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 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/Dialog Editor
- Surround Sound Mixer/Author
- Audio Technician
- Audio-Visual Technician

Salary & Earnings Information
For salary and wage information, visit: www.floridawages.com (http://www.floridawages.com).

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-and-music-technology/ (https://net1.valenciacollege.edu/future-students/degree-options/associates/sound-and-music-technology).
Current Students
Contact the Career Program Advisor below for more information.

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

Kristol Bell, Career Program Advisor, East Campus: 407-582-2097
kbell@valenciacollege.edu

Wendy Hawkinson, Professor, East Campus: 407-582-2633
whawkinson@valenciacollege.edu

Joseph McBride, Sr. Instructional Assistant, East Campus: 407-582-2880
Jmcbride1@valenciacollege.edu

Internship and Workforce Services
If you need assistance with job resources or in locating an internship, please visit: valenciacollege.edu/internship (http://valenciacollege.edu/internship).

Program Requirements

Foundation Courses
- ENC 1101 FRESHMAN COMPOSITION I **~ 3
- MUM 1620C PSYCHOACOUSTICS AND CRITICAL LISTENING SKILLS ** 3
- MUM 1002C FUNDAMENTALS OF SOUND + 3
- TPA 1380 SURVEY OF ENTERTAINMENT TECHNOLOGY 3

Intermediate Courses
- MUM 2634L THE DIGITAL AUDIO WORKSTATION ** 1
- MUS 2380C MUSICAL INSTRUMENTS AND THEIR HISTORY + 3
- MUM 2600C SOUND RECORDING I **~(GR) 4
- MUL 1010 MUSIC APPRECIATION **~ 3

Advanced Courses
- MUM 2606C SOUND RECORDING II **~ 3
- POS 2041 U.S. Government ~ 3
- SPC 1608 FUNDAMENTALS OF SPEECH ~ 3
- MUM 2790L MUSIC PRODUCTION ~ 1

Total Credit Hours 35

+ 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.
(GR) Denotes a Gordon Rule course.

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

Program Outcomes
- Analyze components associated with digital and analog electronic systems.
- Use computers for professional audio applications in accordance with industry standards and practices.
- Use professional audio equipment for reinforcement, recording and reproduction in accordance to industry standards and practices.
- Use principles of music theory and performance in professional music and sound applications.
- Use the MIDI protocol for professional music production and synchronization applications in accordance to industry standards and practices.
- Communicate effectively in technical and non-technical environments.

Foundation Courses
- MUT 1011C Introduction to Music Theory * 3
- MAC 1105 College Algebra ~ 3
- EET 1214C INTRODUCTION TO ENGINEERING TECHNOLOGY 3

Select one of the following: 6
- EET 1015C & EET 1025C FUNDAMENTALS OF DC CIRCUITS and FUNDAMENTALS OF AC CIRCUITS ~ 6
- EET 1036C FUNDAMENTALS OF DC AND AC CIRCUITS ~ 6

Intermediate Courses
- CET 2112C DIGITAL SYSTEMS I * 3
- EET 1141C SEMICONDUCTOR DEVICES AND CIRCUITS * 3

Advanced Courses
- MUM 2640C POST PRODUCTION SOUND * 3
- CET 2123C FUNDAMENTALS OF MICROPROCESSORS * 3

Audio and Electronics Engineering Elective 1

Total Credit Hours 29

Audio Engineering Technology Specialization Electives
- MAC 1114 College Trigonometry ~ 3
- MAC 1140 Precalculus Algebra ~ 3
- ETS 2542C PROGRAMMABLE LOGIC CONTROLLERS I ~ 3
- ETS 1210C INTRODUCTION TO PHOTONICS ~ 3
- MUM 2645L MASTERING TECHNIQUES ~ 1

+ 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.
(GR) Denotes a Gordon Rule course.

Audio and Music Business Management Specialization

Program Outcomes
- Use computers for professional audio applications in accordance with industry standards and practices.
- Use professional audio equipment for sound reinforcement, recording and reproduction in accordance to industry standards and practices.
• Explore principles of music business practices and standards including legal and marketing strategies.
• Use principles and standards of Business Management in an Audio and/or Music business setting
• Produce Audio Masters
• Produce Soundtracks

Foundation Courses
MUT 1011C Introduction to Music Theory * 4
MGF 1106 COLLEGE MATHEMATICS **~ 3
MUM 2720C BUSINESS OF MUSIC 3
GEB 1011 Introduction To Business 3

Intermediate Courses
MUM 2721 Business of Music II Entrepren * 3
APA 1111C BASIC ACCOUNTING 3
SBM 1000 Small Business Management 3

Advanced Courses
MAR 2011 Principles of Marketing * 3
MUM 2640C POST PRODUCTION SOUND * 3

Audio and Music Management Electives
1

Total Credit Hours 29

Music Production Specialization Electives
MUN 1120 Symphonic Band * 1
MUN 1340 Contemporary Ensemble * 1
MUN 2004 Commercial Music Ensemble * 1
MUN 1420 Woodwind Choir * 1
MUN 1430 Brass Choir * 1
MUN 2310 Valencia Singers * 1
MUN 2710 Jazz Lab Band * 1
MUN 2001 OPERA AND MUSIC THEATRE WORKSHOP 2
MVS 1816 Guitar Class 1
MVV 1111 Voice Class 1
MV_ 12_ (Any MVB, MVK, MVP, MVS, MVV, MVW 1200 Level Course) 3
MUM 1660L LOCATION SOUND 1
MUM 2645L MASTERING TECHNIQUES 1

* This course must be completed with a grade of C or better.
~ This course has a prerequisite; check description in Valencia catalog.
(GR) Denotes a Gordon Rule course.

Music Production Specialization
Program Outcomes
• Use principles of music theory and performance in professional music and sound applications.
• Explore principles of music business practices and standards including legal and marketing strategies.
• Use the MIDI protocol for professional music production and synchronization applications in accordance to industry standards and practices.
• Use computers for professional audio applications in accordance with industry standards and practices.
• Use professional audio equipment for sound reinforcement, recording and reproduction in accordance to industry standards and practices.

Foundation Courses
MUT 1111 Music Theory I ** 3

Sound Production Specialization
Program Outcomes
• Use computers for professional audio applications in accordance with industry standards and practices.
• Use professional audio equipment for sound reinforcement, recording and reproduction in accordance to industry standards and practices.
• Use principles of music theory and performance in professional music and sound applications.
• Use principles of acoustics and electricity in professional audio applications.
• Explore principles of music business practices and standards including legal and marketing strategies.
• Produce audio masters.
• Produce soundtracks.
• Use the MIDI protocol for professional music production and synchronization applications in accordance to industry standards and practices.
• Author media for sound reproduction in accordance to professional standards and practices.

**Foundation Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMT 1011C</td>
<td>Introduction to Music Theory *</td>
<td>4</td>
</tr>
<tr>
<td>MMT 2720C</td>
<td>BUSINESS OF MUSIC</td>
<td>3</td>
</tr>
<tr>
<td>Math or Science</td>
<td>See Gen. Ed. Requirements **~</td>
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**Intermediate Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MMT 1662C</td>
<td>LIVE SOUND TECHNIQUES **</td>
<td>3</td>
</tr>
<tr>
<td>DIG 2282C</td>
<td>VISUAL MEDIA ESSENTIALS</td>
<td>3</td>
</tr>
<tr>
<td>MMT 1660L</td>
<td>LOCATION SOUND *</td>
<td>1</td>
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**Advanced Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>MMT 2640C</td>
<td>POST PRODUCTION SOUND *</td>
<td>3</td>
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</tbody>
</table>

**Sound Production Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMT 2645L</td>
<td>MASTERING TECHNIQUES</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credit Hours: 29

**Sound Production Specialization Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMT 2640C</td>
<td>POST PRODUCTION SOUND *</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMT 2640C</td>
<td>POST PRODUCTION SOUND *</td>
<td>3</td>
</tr>
<tr>
<td>Sound Production Electives</td>
<td>8</td>
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</tr>
<tr>
<td>MMT 2645L</td>
<td>MASTERING TECHNIQUES</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Credit Hours: 29

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 application of control protocols and their relationship to equipment used in the music industry.
- Demonstrate set-up and configuration of a computer for audio applications.
- Understand the operation of basic reproduction, reinforcement and recording audio equipment.
- Demonstrate understanding of requirements for set up and operation of a sound reinforcement system.
- Perform transactions with music industry suppliers.
- Demonstrate knowledge of the legal issues of copyright and contracts. 11.0 Demonstrate employability skills.
- Demonstrate an understanding of entrepreneurship.

**Program Requirements**

- MTB 1329 | MATHEMATICS FOR ENGINEERING TECHNOLOGY | 3 |
- or
- MAC 1105 | College Algebra **~               | 3 |
| MMT 1002C | FUNDAMENTALS OF SOUND             | 3 |
| MMT 1620C | PSYCHOACoustics AND CRITICAL LISTENING SKILLS | 3 |
| MMT 2600C | SOUND RECORDING I                  | 4 |
| MMT 2634L | THE DIGITAL AUDIO WORKSTATION     | 1 |
| MMT 1011C | Introduction to Music Theory      | 4 |
| EET 1214C | INTRODUCTION TO ENGINEERING TECHNOLOGY | 3 |
| EET 1015C | FUNDAMENTALS OF DC CIRCUITS       | 3 |

Total Credit Hours: 24

Notes:

- 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 knowledge of basic musical skills.
- Demonstrate application of control protocols and their relationship to equipment used in the music industry.
- Demonstrate set-up and configuration of a computer for audio applications.
- Demonstrate employability skills.

**Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1011C</td>
<td>Introduction to Music Theory</td>
<td>4</td>
</tr>
<tr>
<td>or MUT 1111</td>
<td>Music Theory I</td>
<td></td>
</tr>
<tr>
<td>&amp; MUT 1241C</td>
<td>and Sight Singing and Ear Trng I</td>
<td></td>
</tr>
<tr>
<td>TPA 1380</td>
<td>SURVEY OF ENTERTAINMENT TECHNOLOGY</td>
<td>2</td>
</tr>
<tr>
<td>MUS 2360C</td>
<td>MIDI ELECTRONIC MUSIC I</td>
<td>4</td>
</tr>
<tr>
<td>MVK 1111C</td>
<td>Piano Class for Music Majors I</td>
<td>1</td>
</tr>
<tr>
<td>MVS 1816</td>
<td>Guitar Class</td>
<td>1</td>
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<tr>
<td><strong>Total Credit Hours</strong></td>
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<td><strong>12</strong></td>
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</tbody>
</table>

**Sound and Music Production-Audio Visual 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**
- Use professional audio equipment for sound reinforcement, recording and reproduction in accordance to industry standards and practices.
- Use principles of acoustics and electricity in professional audio applications.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 2260C</td>
<td>INTRODUCTION TO AUDIO PRODUCTION</td>
<td>3</td>
</tr>
<tr>
<td>or MUM 1002C</td>
<td>FUNDAMENTALS OF SOUND</td>
<td></td>
</tr>
<tr>
<td>MUM 1662C</td>
<td>LIVE SOUND TECHNIQUES *</td>
<td>3</td>
</tr>
<tr>
<td>TPA 1380</td>
<td>SURVEY OF ENTERTAINMENT TECHNOLOGY</td>
<td>3</td>
</tr>
<tr>
<td>Choose any two of the following three courses</td>
<td></td>
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<tr>
<td>TPA 2252C</td>
<td>INTRODUCTION TO AUDIO VISUAL TECHNOLOGY</td>
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<tr>
<td>TPA 2257C</td>
<td>AUDIO VISUAL PRODUCTION</td>
<td></td>
</tr>
<tr>
<td>MUS 2361C</td>
<td>MIDI ELECTRONIC MUSIC II **</td>
<td></td>
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<tr>
<td><strong>Total Credit Hours</strong></td>
<td></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

* 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.