

**Table VP11.1** Exemplar Software and Topics for Music Production

| Overall Topic  | Viewport III: Analog and Digital Audio Basics   | Viewport IV: Adding MIDI to the Mix  | Viewport V: Advanced Digital Audio Workstations  | Viewport VI: Music Notation Production   |
|----------------|---|--|--|--|
| Software Topic | Module 12: Wave Editing and Basic-Level DAW Software  | Module 15: MIDI Editing and Basic-Level DAW Software   | Module 18: Software for Advanced DAWs  | Module 21: Software for Scorewriting, Scanning, and Digital Music Readers  |
| Content        | <p><b>Preliminaries</b></p> <ul style="list-style-type: none"> <li>• Mono, Stereo, Channel, and Track</li> <li>• Wave Editors versus DAWs</li> <li>• Installation, Space Use, and Plug-Ins</li> <li>• Choosing the Right platform</li> <li>• Importing Preexisting Audio</li> <li>• Recording Live Audio and Auditing Playback</li> </ul> <p><b>Exemplar Software: Wave Editors</b></p> <ul style="list-style-type: none"> <li>• Audacity®</li> <li>• WavePad®</li> <li>• TwistedWave</li> </ul> <p><b>Introduction to Audio Effects Processing</b></p> <ul style="list-style-type: none"> <li>• Amplitude</li> <li>• Sound Quality</li> <li>• Pitch/Time</li> </ul> <p><b>Exemplar Software: Basic-Level DAWs</b></p> <ul style="list-style-type: none"> <li>• GarageBand (macOS)®</li> <li>• Mixcraft® Recording Studio</li> <li>• Soundation® Chrome Studio</li> <li>• Audio Evolution Mobile</li> </ul> | <p><b>Preliminaries</b></p> <ul style="list-style-type: none"> <li>• MIDI versus Digital Audio</li> <li>• MIDI Messages and Channels</li> <li>• General MIDI and Hardware Synchronization</li> <li>• MIDI Hardware and Connectivity</li> </ul> <p><b>Exemplar Software: Basic-Level DAWs and MIDI</b></p> <ul style="list-style-type: none"> <li>• GarageBand (MacOS)®</li> <li>• Mixcraft® Recording Studio</li> <li>• Studio One® Artist</li> <li>• Soundtrap®</li> <li>• Audio Evolution Mobile</li> <li>• GarageBand (iOS, iPadOS)®</li> </ul> <p><b>Specialized Software for Mobile Platforms</b></p> <ul style="list-style-type: none"> <li>• Specialized DAWs: Korg Gadget and NanoStudio</li> <li>• Software Synthesizer: Audio Kit Synth One</li> <li>• Beatbox/Drum Machine: DM1—The Drum Machine</li> <li>• Workflow Utilities for iOS and iPadOS Music Apps: Audiobus and AUM-Audio Mixer</li> </ul> <p><b>File Format and Distribution Mixing, Mastering, and Distribution</b></p> <ul style="list-style-type: none"> <li>• Mixing and Mastering: Are They the Same?</li> <li>• Mixing and Mastering with Basic-Level DAWs</li> </ul> | <p><b>Advanced DAW Landscape</b></p> <ul style="list-style-type: none"> <li>• Eleven Advanced DAWs</li> <li>• Notable Characteristics</li> </ul> <p><b>Exemplar Software</b></p> <ul style="list-style-type: none"> <li>• Logic Pro® <ul style="list-style-type: none"> <li>◦ Setup/Interface</li> <li>◦ Mixing and Mastering</li> <li>◦ Distribution</li> <li>◦ Software Similar to Logic Pro</li> </ul> </li> <li>• Auria Pro <ul style="list-style-type: none"> <li>◦ Getting Started</li> <li>◦ Interface</li> <li>◦ Editing</li> <li>◦ Mixing, Mastering, and Distribution</li> </ul> </li> <li>• Ableton Live™ <ul style="list-style-type: none"> <li>◦ Getting Started</li> <li>◦ Interface</li> <li>◦ Workflow between Session and Arrangement</li> <li>◦ Editing</li> <li>◦ Audio/MIDI Effects and Automation</li> <li>◦ Mixing and Exporting</li> <li>◦ Software Similar to Ableton Live™</li> </ul> </li> </ul> <p><b>Concluding Perspective: Advanced DAWs and Hardware</b></p> <ul style="list-style-type: none"> <li>• Mixers</li> <li>• DAWs</li> <li>• Examples of DAW/Hardware Trade-Offs</li> <li>• Audio Production Timeline</li> </ul> | <p><b>Scorewriters for Desktop/Laptop Computers</b></p> <ul style="list-style-type: none"> <li>• Six Exemplar Scorewriters</li> </ul> <p>(Dorico® Pro, Finale®, MuseScore®, Noteflight® Premium, Notion®, and Sibelius® Ultimate)</p> <ul style="list-style-type: none"> <li>• Other Scorewriter Software</li> <li>• Software Choice</li> <li>• Basic Operational Features</li> <li>• Note Entry</li> <li>• Basic Editing</li> <li>• Editing Musical Details</li> <li>• Playback, Printing, and Saving</li> <li>• Specialized Capabilities</li> </ul> <p><b>Scorewriters for Mobile Devices</b></p> <ul style="list-style-type: none"> <li>• Notion®</li> <li>• StaffPad®</li> <li>• Other Scorewriters for Mobile Devices</li> </ul> <p><b>Optical and Audio Music Scanning Software</b></p> <ul style="list-style-type: none"> <li>• Characteristics of Optical and Audio Music Scanning Software</li> <li>• SmartScore® X2</li> <li>• Music-to-XML</li> <li>• Photoscore®</li> <li>• AudioScore®</li> <li>• Playscore®</li> </ul> <p><b>Digital Music Reader Applications</b></p> <ul style="list-style-type: none"> <li>• Characteristics of Digital Music Readers</li> <li>• forScore</li> <li>• Newzik</li> <li>• TomPlay®</li> <li>• Other Digital Music Readers</li> </ul> |