



Bell Cultural Events Center

MidAmerica Nazarene University

2030 E. College Way

Olathe, KS 66062

General Specifications Mabee Performing Arts Hall

The Mabee Performing Arts Hall is located in the Bell Cultural Events Center on the campus of MidAmerica Nazarene University. The seating capacity is 545 (including wheelchair access seating spaces). It is a sloped-floor venue with three main floor seating sections and three additional sections in the mezzanine. The farthest seat from the stage is 72'.

Stage Measurements:

- Stage floor: 45' deep; 54' wide
- Wall-to-wall: 78'
- Center to SR wall: 39'
- Center to SL wall: 39'
- SR & SL wings: 12' x 31' each
- Proscenium width: 36'
- Proscenium height: 21'
- Grid height: 27'

Stage Surface:

- Stage floor is flat and even. Top surface is 3/4' parquet hardwood
- Screws into the stage surface is prohibited
- Use of Rosin is prohibited

Theatre Floor:

- Mabee Hall has 4' x 8' rubber sections cut to fit the apron to mid-stage traveler (32' deep by 44' wide)

Softgoods:

- Valance (Memorable Black), 2 pieces @ 75% fullness – 12'6" h x 31' w each
- Grand Curtain (Memorable Black), 2 pieces @ 75% fullness – 26' h x 25' w each
- Traveler Mid Stage (Princess Black), 2 pieces @ 50% fullness – 25'3" h x 25' w each
- Traveler Up Stage (Princess Black) 2 pieces @ 50% fullness – 25'3" h x 25' w each
- Legs (Princess Black), 3 pair @ 50% fullness – 26'9" h x 14' w

- Borders (Princess Black)
 - 1 @ 6'h x 48"w
 - 3 @ 5'h x 48"w
 - 1 @ 8'h x 48"w
- Cyclorama (White Muslin), 25'3"h x 42'w (hung on second upstage traveler)

Orchestra Shell:

The shell walls are built to roll into position – the front portion providing a hard proscenium—creating a continuous beautiful wood surface from audience to and around stage. The following specs are with the shell in place:

- Proscenium width – 54'
- Stage depth – 45'
- Up Stage width – 42'
- Down Stage width – 54'
- SL wall to center – 27'
- SR wall to center – 27'
- Doors open to wings

Headsets and Communications:

- Production Intercom system – 2 channel, 25 person capacity at various locations
- All dressing rooms and make-up/green room are monitored to stage

Dressing Rooms:

- Two large dressing rooms connected to green room and make-up area
- Restroom facility
- Small private dressing room across from green room/make-up area
- Other rooms may be made available as necessary for dressing room/green room space

Musical Equipment:

- Musician chairs
- Music stands
- Choral risers (6 standing risers)
- Band/choral risers: 4' x 8'
- Conductor's podiums

No special effects equipment currently available. Use of fog machine/haze machine requires administrative oversight and control. See Bell Center administration for further information.

Lighting Specifications

Mabee Hall

Dimmers:

- 214 ETC Sensor 2.4K Dimmers
- Dimmer circuits are equipped with stage pin connectors except for eight grid work lights
- Circuits 111-132 and 183-192 are not wired
- Standard Edison utility outlets located along with dimmer circuits for use with color changers and effects equipment
- No 208v outlets as required for moving lights

Controls:

- Lightboard: ETC Express 125/250 console
- ETC netware to DMX adaptors located two each SL & SR; one each grid SL & SR; one unit at house left of catwalk.

Circuits:

- 38 circuits on FOH catwalk (1-38)
- 10 circuits on FOH tirms (51-60)
- 6 circuits on DS apron floor pocket SL (39-44)
- 6 circuits on DS apron floor pocket SR (45-50)
- 25 circuits on 1st Electric (61-85)
- 25 circuits on 2nd Electric (86-110)
- 24 circuits on 3rd Electric (133-156)
- 3 circuits in mid-stage floor pocket SL (157-159)
- 3 circuits in mid-stage floor pocket SR (160-162)
- 12 circuits in US floor pockets (163-174)
- 8 circuits grid work lights (175-182)
- 22 circuits for house lights (193-214)

Lighting Fixtures in Hall:

- 16 – 19-degree E.T.C. *Source Four* **Ellipsoidal** reflector spotlights with 575-watt lamp, color frame, pipe clamp, safety cable, and stage pin connectors
- 14 – 26-degree E.T.C. *Source Four* **Ellipsoidal** reflector spotlights with 575-watt lamp, color frame, pipe clamp, safety cable, and stage pin connectors
- 22 – 36-degree E.T.C. *Source Four* **Ellipsoidal** reflector spotlights with 575-watt lamp, color frame, pipe clamp, safety cable, and stage pin connectors
- 20 –E.T.C. *Source Four* **PAR** with 575-watt lamp, color frame, pipe clamp, safety cable, set of four interchangeable lenses and stage pin connectors

- 22 – White E.T.C. *Source Four* **PAR** with 575-watt lamp, color frame, pipe clamp, safety cable, set of four interchangeable lenses and Edison connectors, installed as semi-stationary stage lighting
- 6 – Altman #154 14” **Scoop** with pipe clamp, color frame 500-watt lamp, safety cable and 2P&G connector installed
- 5 – Colortran #108-532 6’, 3-circuit **Cyc Strips** with pipe clamp, color frames 1000-watt FHM lamps, safety cable and stage pin connectors
- 6 – Colortran #213-512, **6” Theatre Fresnel** complete with pipe clamp, color frame, safety cable, 750-watt BTN lamp and stage pin connectors

Additional instruments available in Bell for use in Hall:

- 6 – 36-degree E.T.C. *Source Four* **Ellipsoidal** reflector spotlights with 575-watt lamp, color frame, pipe clamp, safety cable, and stage pin connectors
- 14 – Colortran #213-512, **6” Theatre Fresnel** with pipe clamp, color frame, safety cable, 750-watt BTN lamp and stage pin connectors
- 4 - Altman #154 14” **Scoops** with pipe clamp, color frame 500-watt lamp, safety cable and stage pin connectors

Accessories:

- 2 – *Source Four* drop-in Iris
- 2 – 10’ light trees w/base and top eye
- 8 – 25’ extension cables w/2P&G connectors
- 20 – 10’ extension cables w/2P&G connectors
- 10 – 5’ extension cables w/2P&G connectors

Sound Specifications

Mabee Hall

House Sound System:

House Loud Speakers – 3 - way active system

- 2 – Proscenium line arrays configured in stereo
- 14 – Electro-Voice XLD281 line array elements
- 4 – Dynacord 18” subwoofers (under the stage, in stereo on the stereo bus)

Mixer and Amplifiers:

- Mixer: Yamaha M7CL-48 channel console
- Amplifiers: Electro-voice
 - 8 – EV CPS 2.11 (house array amps)
 - 1 – P3000RL (sub amp)
 - 3 – EV CPS 2.6 (monitor amps)
- Location of house mixer: Open air control booth, mezzanine level

Monitors:

- 4 – Fri-28LPM monitors
- 2 – EV Eliminator-E monitors
- Six mixes available controlled from console or wireless tablet
- 2 – Electro-Voice EVID 4.2 booth cue monitors (in mono)

System Control:

- EV NetMax – N8000 System Controller
- Wireless tablet PC running ElectroVoice IrisNet and Yamaha Studio Manager

I/O Panels and Floor Pockets:

- Stage right wall panel (19 inputs / 2 returns / intercom A/B / mix 6 out)
- Stage left wall panel (19 inputs / 2 returns / intercom A/B / mix 6 out)
- 5 Stage floor pockets (1 mic in / AC Power / 1 monitor mix output)

Program Source Equipment:

- Denon DN-C550R
- Mini 1/8” MP3 Player input
- Mac iTunes & Pro/ProTools playback
- 4 F.O.H. Local D.I.'s
- 8 F.O.H. Local mic inputs

Wireless System / Microphones:

- 6 – Shure UR4D receivers
- 1 – Shure UA845 UHF Antenna distribution system
- 2 – Beta87C handheld transmitters
- 4 – Shure UR1 wireless body pack transmitters
- 4 - WL184 lav. mics
- 4 – WA302 instrument cables
- 4 – Beta 54 headsets (beige)

Wired Microphones:

- 8 – Shure Beta58A
- 6 – Shure SM58-S
- 10 – Shure SM86
- 4 – Shure Microflex MX-200 B/C overhead microphones

Recording System:

- ProTools HD v7.3
- Control 24 control surface
- 1 – 96 I/O interface
- 1 – 192 Digital I/O interface
- 2 – MY16-AT Yamaha option cards for 24 track ProTools recording and playback
- Reference amp – Alesis RA500
- Reference monitors - Behringer Truth B231P
- Mac Pro w/23” Apple Cinema display
- 1 – Shure VP88 stereo condenser microphone (mounted in catwalk)

Accessories:

- Tall boom mic-stands for all available microphones
- Various lengths of microphone and monitor cables
- 2 – Subsnakes (ProCo 16x4 100’ and Rapco 8x4 50’)
- 4 – Audio Technica ATH-M30 headphones
- 3 – Rapco DB100 direct boxes
- 2 – Rapco DB200 direct boxes

Assistive Listening System:

- 1 – LT-800 FM transmitter
- 8 – Portable FM receivers available

Portable System:

- Mackie CFX-12
- 2 – EV-SXA100+ speakers
- 1 – EV-SVA 760 amp
- 1 – Denon DN-C615 CD player