

# **Instructional Program Review 2019/20 UPDATE**

**Building Construction Technology**

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## General Information (Instructional Program Review 2019/20 UPDATE)

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## 2019/20 Instructional Program Review

### SUBMISSION INFORMATION AND UPDATES (REQUIRED)

- Name of Lead Writer: Larry Horsman
- Name of Liaison: Manny Bautista
- Department Chair: Ian Kay
- Name of Manager/Service Area Supervisor: Charles Zappia
- Is this a CTE program? (State Yes or No): Yes

### OUTCOMES AND ASSESSMENT (REQUIRED)

**Form:** 2019/20 Program Review Outcomes and Assessment Section (See appendix)

### PROGRAM ANALYSIS FOR EQUITY AND EXCELLENCE (REQUIRED)

**Form:** 2019/20 Program Review Instructional Program Analysis Section (See appendix)

#### File Attachments:

1. Program Review Statistical Data.pdf

### PROGRAM GOALS (REQUIRED)

#### 2018/19

##### **Ceiling Document Camera, Ceiling Projector Replacement & Related Podium Upgrades in Z102**

A major goal is the replacement of the ceiling mounted document cameras, ceiling mounted projectors, wall mounted monitors and related podium upgrades in the Design center Auditorium, Z102. The current equipment is analog based and must be upgraded to a digital based system if we are to keep pace with industry standards. It should be noted, that ceiling camera replacement and related podium upgrades will support faculty and students in all programs within the Department of Architecture and Environmental Design and Building Construction Technology Program.

##### **Mapping**

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.3, Strategic Goal 1.4, Strategic Goal 1.6, Strategic Goal 2.4, Strategic Goal 4.1, Strategic Goal 4.2, Strategic Goal 6.1,

**CTE 2018/19:** Perkins Core Indicator Activity 1, Perkins Permissive Use 10.20, Perkins Permissive Use 10.7, Perkins Requirement 4, Perkins Requirement 1, Perkins Requirement 3, Perkins Requirement 7, Strong Workforce Recommendation 2,

**Institutional Learning Outcomes 2016/17:** Communication, Critical Thinking, Global Consciousness, Information Literacy, Professional & Ethical Behavior

##### **Computer Hardware Replacement**

A major challenge is the replacement of hardware utilized by the program. Updated hardware reflects an improvement and modernization of the learning environment and models the current workplace environment.

Providing industry state-of-the-art hardware, increases access to students who cannot afford the price of this hardware. The ability of students to apply this hardware to architectural, interior design and building construction technology projects increases the employability of these students and the success of students transferring to college and university programs. The quality of the hardware goes hand-in-hand with the software. Fortunately, our hardware, then four years old, was upgraded during the 2016 Summer Break. However, we are now experiencing problems with the hardware as the software we employ is upgraded every year which impacts hardware operation. This goal supports all faculty and students within the Department of Architecture and Environmental Design & BLDC Prog.

### Mapping

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.3, Strategic Goal 1.4, Strategic Goal 1.6, Strategic Goal 4.2, Strategic Goal 4.3, Strategic Goal 5.2, Strategic Goal 6.1,

**CTE 2018/19:** Perkins Core Indicator Activity 1, Perkins Core Indicator Activity 2, Perkins Permissive Use 10.20, Perkins Permissive Use 10.7, Perkins Requirement 4, Perkins Requirement 1, Perkins Requirement 3, Perkins Requirement 7, Strong Workforce Recommendation 15, Strong Workforce Recommendation 2,

**Institutional Learning Outcomes 2016/17:** Communication, Critical Thinking, Global Consciousness, Information Literacy

### Tool Storage

A continuing challenge is the lack of space for tool storage. After living with the Design Center for eight years, we have discovered the need for additional storage space for the tools required for Building Construction Technology courses and students as well as the Architecture courses and students who enroll in Building Construction Technology courses. We are proposing the purchase of a free-standing container that would be located to the north of the Z100 Building adjacent to the Building Construction Technology temporary build site. We have attached a cost estimate for the purchase of the container. It should be noted, that the additional tool storage will support faculty and students in all programs within the Department.

### Mapping

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.6,

**CTE 2018/19:** Perkins Core Indicator Activity 1, Perkins Permissive Use 10.20, Perkins Permissive Use 10.7, Perkins Requirement 3, Strong Workforce Recommendation 1, Strong Workforce Recommendation 2,

**Institutional Learning Outcomes 2016/17:** Communication, Professional & Ethical Behavior

### Repainting the Exterior of the Design Center

An important goal at this time is to repair and repaint the exterior of the entire Design Center. To facilitate this, Department Faculty will develop a series of workshops that will allow us to involve and work directly with students in the Architecture and Interior Design Programs to develop a master plan paint scheme for the Design Center. The painting itself will be performed by a professional painting contractor who will be recommended and vetted by the District Architect, Lance Lareau. It should be noted that District Architect, Lance Lareau, has developed a scope of work and cost for the replacement of the fascia's. He has not developed a final schedule for that work at this time. This goal supports all faculty and students within the Department of Architecture and Environmental Design.

## Mapping

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.6, Strategic Goal 2.1, Strategic Goal 2.2, Strategic Goal 4.1, Strategic Goal 6.1,

**CTE 2018/19:** Perkins Permissive Use 10.20, Perkins Requirement 3, Perkins Requirement 7,

**Institutional Learning Outcomes 2016/17:** Communication, Global Consciousness

## Art Installation at the Design Center

Our goal at this time is to propose an initial installation of three versions of Le Corbusier's Modular Man. Department Faculty will develop the drawings for fabrication in steel plate, the concrete base details and color selections. The fabrication itself will be performed by a professional steel fabricator. The installation will be performed by a contractor that will be recommended and vetted by the District Architect, Lance Lareau.

## Mapping

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.6, Strategic Goal 2.1, Strategic Goal 2.3, Strategic Goal 3.2, Strategic Goal 4.1, Strategic Goal 6.1,

**CTE 2018/19:** Perkins Permissive Use 10.20, Perkins Requirement 3, Strong Workforce Recommendation 2,

**Institutional Learning Outcomes 2016/17:** Communication, Global Consciousness

## Design Center Building Maintenance

A continuing challenge is the lack of maintenance, primarily of the exterior of the buildings at the Design Center. After living with the Design Center for eight years, we have discovered that there are many areas of the exterior that need attention. Constructed in 1953, the Design Center buildings are over 60 years old, the oldest on Campus, and even though minor exterior improvements were made during the remodel, there are a number of areas that need immediate and long-term attention. Following is a list of items that need attention: • Replacement of fascia's. • Paint, particularly, wood trim, doors, etc. • Roofs appear to be leaking in virtually every classroom, office, etc. • Interior ceiling repairs due to roof leaks. • Air conditioning and heating operation issues. • Landscape maintenance. This goal supports all faculty and students within the Department of Architecture and Environmental Design.

## Mapping

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.6, Strategic Goal 6.1,

**CTE 2018/19:** Perkins Permissive Use 10.20, Perkins Requirement 7

## Replacement of Model Building Equipment

With access to a fully integrated model building lab, students trained in the use of model building equipment such as laser engravers and 3D printers and methods are able to use this knowledge to complete a wide range of projects across the curriculum. We currently own three Epilog Laser Engravers. Are needs being in the area of future replacement of these engravers as they become obsolete. Fortunately, they are functioning properly at this time, but we do see a time, in the near future where these engravers will need to be replaced. We have attached a cost estimate for the purchase of the laser engravers. It should be noted that the laser engravers are and will be available for all programs within the Department.

## Mapping

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.3, Strategic Goal 1.4, Strategic Goal 1.6, Strategic Goal 4.1, Strategic Goal 4.2,

**CTE 2018/19:** Perkins Core Indicator Activity 1, Perkins Core Indicator Activity 3, Perkins Core Indicator Activity 4, Perkins Permissive Use 10.20, Perkins Permissive Use 10.7, Perkins Requirement 4, Perkins Requirement 1, Perkins Requirement 3, Perkins Requirement 7, Strong Workforce Recommendation 2,

**Institutional Learning Outcomes 2016/17:** Communication, Critical Thinking, Information Literacy

## New Exhibit Gallery Building

A short term goal is our proposal for a new exhibit gallery building at the Design Center. The gallery will be used for exhibiting the work of students and professionals. Professionals would be invited to lecture and exhibit their work. Utilizing the existing auditorium and new gallery for lectures and exhibits by visiting designers will bring working professionals and their work to students in the Department as well as the Campus at large. We have felt the need for a building of this type for some time and have discussed ways to approach the realization of such a project. Upon viewing student designed exhibit gallery projects at last year's annual student exhibit, Former Vice President of Instruction, Tim McGrath and our Dean, Charles Zappia, encouraged faculty to pursue the project through the appropriate channels. During the Summer of 2018, faculty from the Architecture Program developed detailed preliminary design drawings for the building and related landscape improvements.

## Mapping

**CA- Mesa College Strategic Directions and Goals:** Strategic Goal 1.1, Strategic Goal 1.2, Strategic Goal 1.3, Strategic Goal 1.4, Strategic Goal 1.6, Strategic Goal 2.1, Strategic Goal 2.3, Strategic Goal 3.1, Strategic Goal 3.2, Strategic Goal 3.3, Strategic Goal 4.1, Strategic Goal 4.2, Strategic Goal 5.1, Strategic Goal 5.2, Strategic Goal 6.1,

**CTE 2018/19:** Perkins Permissive Use 10.20, Perkins Permissive Use 10.3, Perkins Permissive Use 10.5, Perkins Requirement 1, Perkins Requirement 3, Perkins Requirement 7, Perkins Requirement 8, Strong Workforce Recommendation 1, Strong Workforce Recommendation 11, Strong Workforce Recommendation 15, Strong Workforce Recommendation 2, Strong Workforce Recommendation 3, Strong Workforce Recommendation 7,

**Institutional Learning Outcomes 2016/17:** Communication, Critical Thinking, Global Consciousness, Information Literacy, Professional & Ethical Behavior

## ACTION PLANS FOR GOALS (REQUIRED)

### Actions

#### 2018/19

##### Goal

#### **Goal: Ceiling Document Camera, Ceiling Projector Replacement & Related Podium Upgrades in Z102**

A major goal is the replacement of the ceiling mounted document cameras, ceiling mounted projectors, wall mounted monitors and related podium upgrades in the Design center Auditorium, Z102. The current equipment is analog based and must be upgraded to a digital based system if we are to keep pace with industry standards.

It should be noted, that ceiling camera replacement and related podium upgrades will support faculty and students in

all programs within the Department of Architecture and Environmental Design.

**Action:** Ceiling Document Camera, Ceiling Projector Replacement & Related Podium Upgrades in Z102

**Describe the actions needed to achieve this objective:**

The following actions are needed to achieve this objective:

1. Meet on-site with representative from Southland Technology to discuss requirements so said representative can compile list for replacement of the ceiling mounted document cameras, wall mounted screens, ceiling mounted projectors and related podium upgrades in the Design Center Auditorium, Z102.
2. Representative from Southland Technology to develop and submit sales quote for the replacement of the ceiling mounted document camera, ceiling mounted projector and related podium upgrades.
3. Purchase all required components as defined by Southland Technology in their submitted sales quote.
4. Install all required components as defined by Southland Technology in their submitted sales quote.

**Who will be responsible for overseeing the completion of this objective:**

1. Ian J. Kay, Chair, Architecture & Environmental Design Department
2. David Fierro, Director, Technology Services

**Provide a timeline for the actions:**

Provide a timeline for the actions: The timeline for this action is as follows: 1. Department Chair Ian Kay to meet with representative from Southland Technology Fall Semester 2019. 2. Representative from Southland Technology submits sales quote for the replacement of the ceiling mounted document camera, ceiling mounted projector and related podium upgrades Fall 2019. 3. Request for replacement of the ceiling mounted document camera, ceiling mounted projector and related podium upgrades submitted in 2019-2020 Program Review cycle. 4. Funding approved Spring 2020. 5. Purchase all required components as defined by Southland Technology in their submitted sales quote by the end of the Spring Semester 2020. 6. Start installation of components as defined by Southland Technology in their submitted sales quote at the beginning of the Summer Session 2020. 7. Complete installation of all components as defined by Southland Technology in their submitted sales quote prior to the beginning of the Fall Semester 2020.

**Describe the assessment plan you will use to know if the objective was achieved and effective:**

Ian J. Kay, Chair, Architecture & Environmental Design Department will develop an assessment survey that will be utilized to determine if the new components as defined by Southland Technology in their submitted sales quote are functioning properly. This survey will be conducted after the first two weeks of the Fall Semester 2020 has concluded.

**List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):**

The resources needed to achieve this objective are as follows:

1. Funding to purchase all required components as defined by Southland Technology in their submitted sales quote.
2. Classified Staff as follows:
  - a. David Fierro, Director, Technology Services
  - b. Additional Classified Staff as determined by David Fierro, Director, Technology Services



3. A complete list of all required components as defined by Southland Technology has been attached.

### Goal: Computer Hardware Replacement

A major challenge is the replacement of hardware utilized by the program. Updated hardware reflects an improvement and modernization of the learning environment and models the current workplace environment. Providing industry state-of-the-art hardware, increases access to students who cannot afford the price of this hardware. The ability of students to apply this hardware to architectural, interior design and building construction technology projects increases the employability of these students and the success of students transferring to college and university programs. The quality of the hardware goes hand-in-hand with the software. Fortunately, our hardware, then four years old, was upgraded during the 2016 Summer Break. However, we are now experiencing problems with the hardware as the software we employ is upgraded every year which impacts hardware operation.

This goal supports all faculty and students within the Department of Architecture and Environmental Design.

### Action: Computer Hardware Replacement

**Describe the actions needed to achieve this objective:**

This is an ongoing issue for all programs within the Department of Architecture and Environmental Design. The primary issue is budget (currently a problem due to budget deficit in the District).

The hardware needs are driven by software requirements.

1. Establish hardware needs taking into consideration:

- Normal replacement cycle time
- Types of software and activity to be supported
- Distribution requirements across Department of Architecture and Environmental Design
- Installation and support requirements
- Rollout & commissioning
- Budget for installation and support & commissioning

**Who will be responsible for overseeing the completion of this objective:**

The Department Chair  
Director of Technology Services  
Additional Classified Staff as determined by Director, Technology Services

**Provide a timeline for the actions:**

This is an ongoing process due to the rapid evolution of technology (both hardware & software)

**Describe the assessment plan you will use to know if the objective was achieved and effective:**

Once updated computers are working and servicing student needs

**List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer**

Resources for goal have not been identified at this time, however, it is currently being worked on by Department Chair, Ian Kay.

**Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):**

**Goal: Tool Storage**

A continuing challenge is the lack of space for tool storage. After living with the Design Center for eight years, we have discovered the need for additional storage space for the tools required for Building Construction Technology courses and students as well as the Architecture courses and students who enroll in Building Construction Technology courses.

We are proposing the purchase of a free-standing container that would be located to the north of the Z100 Building adjacent to the Building Construction Technology temporary build site.

We have attached a cost estimate for the purchase of the container.

It should be noted, that the additional tool storage will support faculty and students in all programs within the Department.

**Action: Tool Storage Shed**

**Describe the actions needed to achieve this objective:**

Verify basic storage requirements (size/type of storage facility)  
This has been accomplished

Determine total cost (acquisition & installation)  
This is in process and is being updated

Acquisition and installation

Maintenance

**Who will be responsible for overseeing the completion of this objective:**

Department Chair (Ian Kay) has the lead  
District Architect  
Facilities personnel

**Provide a timeline for the actions:**

Department Chair has done preliminary costing There is no specific timeline due to current budget issues and focus on higher current priorities.

**Describe the assessment plan you will use to know if the objective was achieved and effective:**

Objective will have been achieved when the facility has been installed and is functional

**List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff,**

Budget for Acquisition and Installation of storage facility.

**Faculty, Other):**

**Goal: Repainting the Exterior of the Design Center**

An important goal at this time is to repair and repaint the exterior of the entire Design Center. To facilitate this, Department Faculty will develop a series of workshops that will allow us to involve and work directly with students in the Architecture and Interior Design Programs to develop a master plan paint scheme for the Design Center. The painting itself will be performed by a professional painting contractor who will be recommended and vetted by the District Architect, Lance Lareau.

It should be noted that District Architect, Lance Lareau, has developed a scope of work and cost for the replacement of the fascia's. He has not developed a final schedule for that work at this time.

This goal supports all faculty and students within the Department of Architecture and Environmental Design.

**Action: Repainting the Exterior of the Design Center**

**Describe the actions needed to achieve this objective:**

Preliminary schemes for painting have been developed by students in the Interior Design Program. A final scheme has not been selected or approved to date. Ongoing exploration of painting options is expected to continue for at least an additional semester or two. District Architect will then review and approve plans and work to identify budget source and contractor.

**Who will be responsible for overseeing the completion of this objective:**

District Architect/Facilities

**Provide a timeline for the actions:**

Current timeline has not been developed although replacement of some portions of rotted fascia are in the process of being replaced.

**Describe the assessment plan you will use to know if the objective was achieved and effective:**

Visual inspection

**List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):**

Undetermined at this time.

**Goal: Art Installation at the Design Center**

Our goal at this time is to propose an initial installation of three versions of Le Corbusier's Modular Man. Department Faculty will develop the drawings for fabrication in steel plate, the concrete base details and color selections. The fabrication itself will be performed by a professional steel fabricator. The installation will be performed by a contractor

that will be recommended and vetted by the District Architect, Lance Lareau.

**Action: Art Installation at the Design Center**

<b>Describe the actions needed to achieve this objective:</b>	Initial installation has been proposed Proposal needs to be reviewed and accepted by District Architect Proposal needs to be reviewed and accepted by District
<b>Who will be responsible for overseeing the completion of this objective:</b>	District Architect
<b>Provide a timeline for the actions:</b>	No specific timeline or budget has been established.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Completion of Installation will confirm achievement of objective.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff, Faculty, Other):</b>	Resources required have not been identified at this time.

**Goal: Design Center Building Maintenance**

A continuing challenge is the lack of maintenance, primarily of the exterior of the buildings at the Design Center. After living with the Design Center for eight years, we have discovered that there are many areas of the exterior that need attention. Constructed in 1953, the Design Center buildings are over 60 years old, the oldest on Campus, and even though minor exterior improvements were made during the remodel, there are a number of areas that need immediate and long-term attention. Following is a list of items that need attention:

- Replacement of fascia's.
- Paint, particularly, wood trim, doors, etc.
- Roofs appear to be leaking in virtually every classroom, office, etc.
- Interior ceiling repairs due to roof leaks.
- Air conditioning and heating operation issues.
- Landscape maintenance.

This goal supports all faculty and students within the Department of Architecture and Environmental Design.

**Action: Design Center Building Maintenance**

<b>Describe the actions needed to achieve this objective:</b>	Budget for necessary maintenance and repairs (currently an issue due to budget shortfall within the district).
<b>Who will be responsible for</b>	Facilities

<b>overseeing the completion of this objective:</b>	District Architect
<b>Provide a timeline for the actions:</b>	No specific timeline has been established. Much of the needed maintenance has be deferred for a significant period of time (years) already.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Visual assessment that needed maintenance has been completed and a lack of roof leaks.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff, Faculty, Other):</b>	Total resources required have not been identified. Most issues have been identified and are awaiting high enough priority to act upon.

**Goal: Replacement of Model Building Equipment**

With access to a fully integrated model building lab, students trained in the use of model building equipment such as laser engravers and 3D printers and methods are able to use this knowledge to complete a wide range of projects across the curriculum. We currently own three Epilog Laser Engravers. Are needs being in the area of future replacement of these engravers as they become obsolete. Fortunately, they are functioning properly at this time, but we do see a time, in the near future where these engravers will need to be replaced.

We have attached a cost estimate for the purchase of the laser engravers.

It should be noted that the laser engravers are and will be available for all programs within the Department.

**Action: Replacement of Model Building Equipment**

<b>Describe the actions needed to achieve this objective:</b>	Select, purchase, and install new laser engravers.
<b>Who will be responsible for overseeing the completion of this objective:</b>	Department Chair Facilities
<b>Provide a timeline for the actions:</b>	No specific timeline available at this time.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Assessment plan will consist of installation, commissioning, and utilization of stated equipment.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer</b>	Cost estimate has been established by Department Chair.

**Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):**

**Goal: New Exhibit Gallery Building**

A short term goal is our proposal for a new exhibit gallery building at the Design Center. The gallery will be used for exhibiting the work of students and professionals. Professionals would be invited to lecture and exhibit their work. Utilizing the existing auditorium and new gallery for lectures and exhibits by visiting designers will bring working professionals and their work to students in the Department as well as the Campus at large.

We have felt the need for a building of this type for some time and have discussed ways to approach the realization of such a project. Upon viewing student designed exhibit gallery projects at last year's annual student exhibit, Former Vice President of Instruction, Tim McGrath and our Dean, Charles Zappia, encouraged faculty to pursue the project through the appropriate channels.

During the Summer of 2018, faculty from the Architecture Program developed detailed preliminary design drawings for the building and related landscape improvements.

**Action: New Exhibit Gallery Building**

<b>Describe the actions needed to achieve this objective:</b>	Finalize design requirements. Gain approval from Mesa and District Develop Budget and receive funding Hire Contractor and construct
<b>Who will be responsible for overseeing the completion of this objective:</b>	District Architect Facilities
<b>Provide a timeline for the actions:</b>	Currently there is no timeline for this.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	When the project is complete and functioning.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff, Faculty, Other):</b>	Currently this is in the conceptual stage.

**GOAL STATUS REPORT (REQUIRED)**

## Action Statuses

2018/19

Goal

### **Goal: Ceiling Document Camera, Ceiling Projector Replacement & Related Podium Upgrades in Z102**

A major goal is the replacement of the ceiling mounted document cameras, ceiling mounted projectors, wall mounted monitors and related podium upgrades in the Design center Auditorium, Z102. The current equipment is analog based and must be upgraded to a digital based system if we are to keep pace with industry standards.

It should be noted, that ceiling camera replacement and related podium upgrades will support faculty and students in all programs within the Department of Architecture and Environmental Design.

### **Action: Ceiling Document Camera, Ceiling Projector Replacement & Related Podium Upgrades in Z102**

**Describe the actions needed to achieve this objective:**

The following actions are needed to achieve this objective:

1. Meet on-site with representative from Southland Technology to discuss requirements so said representative can compile list for replacement of the ceiling mounted document cameras, wall mounted screens, ceiling mounted projectors and related podium upgrades in the Design Center Auditorium, Z102.
2. Representative from Southland Technology to develop and submit sales quote for the replacement of the ceiling mounted document camera, ceiling mounted projector and related podium upgrades.
3. Purchase all required components as defined by Southland Technology in their submitted sales quote.
4. Install all required components as defined by Southland Technology in their submitted sales quote.

**Who will be responsible for overseeing the completion of this objective:**

1. Ian J. Kay, Chair, Architecture & Environmental Design Department
2. David Fierro, Director, Technology Services

**Provide a timeline for the actions:**

Provide a timeline for the actions: The timeline for this action is as follows: 1. Department Chair Ian Kay to meet with representative from Southland Technology Fall Semester 2019. 2. Representative from Southland Technology submits sales quote for the replacement of the ceiling mounted document camera, ceiling mounted projector and related podium upgrades Fall 2019. 3. Request for replacement of the ceiling mounted document camera, ceiling mounted projector and related podium upgrades submitted in 2019-2020 Program Review cycle. 4. Funding approved Spring 2020. 5. Purchase all required components as defined by Southland Technology in their submitted sales quote by the end of the Spring Semester 2020. 6. Start installation of components as defined by Southland Technology in their submitted sales quote at the beginning of the Summer Session 2020. 7. Complete installation of all components as defined by Southland Technology in their submitted sales quote prior to the beginning of the Fall Semester 2020.

**Describe the assessment plan you will use to know if the objective was achieved and effective:**

Ian J. Kay, Chair, Architecture & Environmental Design Department will develop an assessment survey that will be utilized to determine if the new components as defined by Southland Technology in their submitted sales quote are functioning properly. This survey will be conducted after the first two weeks of the Fall Semester

**List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):**

2020 has concluded.

The resources needed to achieve this objective are as follows:

1. Funding to purchase all required components as defined by Southland Technology in their submitted sales quote.
2. Classified Staff as follows:
  - a. David Fierro, Director, Technology Services
  - b. Additional Classified Staff as determined by David Fierro, Director, Technology Services
3. A complete list of all required components as defined by Southland Technology has been attached.

Status for Ceiling Document Camera, Ceiling Projector Replacement & Related Podium Upgrades in Z102

*No Status Added*

**Goal: Computer Hardware Replacement**

A major challenge is the replacement of hardware utilized by the program. Updated hardware reflects an improvement and modernization of the learning environment and models the current workplace environment. Providing industry state-of-the-art hardware, increases access to students who cannot afford the price of this hardware. The ability of students to apply this hardware to architectural, interior design and building construction technology projects increases the employability of these students and the success of students transferring to college and university programs. The quality of the hardware goes hand-in-hand with the software. Fortunately, our hardware, then four years old, was upgraded during the 2016 Summer Break. However, we are now experiencing problems with the hardware as the software we employ is upgraded every year which impacts hardware operation.

This goal supports all faculty and students within the Department of Architecture and Environmental Design.

**Action: Computer Hardware Replacement**

**Describe the actions needed to achieve this objective:**

This is an ongoing issue for all programs within the Department of Architecture and Environmental Design. The primary issue is budget (currently a problem due to budget deficit in the District).

The hardware needs are driven by software requirements.

1. Establish hardware needs taking into consideration:
  - Normal replacement cycle time
  - Types of software and activity to be supported
  - Distribution requirements across Department of Architecture and Environmental Design
  - Installation and support requirements
  - Rollout & commissioning
  - Budget for installation and support & commissioning



**Who will be responsible for overseeing the completion of this objective:**

The Department Chair  
Director of Technology Services  
Additional Classified Staff as determined by Director, Technology Services

**Provide a timeline for the actions:**

This is an ongoing process due to the rapid evolution of technology (both hardware & software)

**Describe the assessment plan you will use to know if the objective was achieved and effective:**

Once updated computers are working and servicing student needs

**List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):**

Resources for goal have not been identified at this time, however, it is currently being worked on by Department Chair, Ian Kay.

Status for Computer Hardware Replacement

*No Status Added*

**Goal: Tool Storage**

A continuing challenge is the lack of space for tool storage. After living with the Design Center for eight years, we have discovered the need for additional storage space for the tools required for Building Construction Technology courses and students as well as the Architecture courses and students who enroll in Building Construction Technology courses.

We are proposing the purchase of a free-standing container that would be located to the north of the Z100 Building adjacent to the Building Construction Technology temporary build site.

We have attached a cost estimate for the purchase of the container.

It should be noted, that the additional tool storage will support faculty and students in all programs within the Department.

**Action: Tool Storage Shed**

**Describe the actions needed to achieve this objective:**

Verify basic storage requirements (size/type of storage facility)  
This has been accomplished

Determine total cost (acquisition & installation)  
This is in process and is being updated

	Acquisition and installation
	Maintenance
<b>Who will be responsible for overseeing the completion of this objective:</b>	Department Chair (Ian Kay) has the lead District Architect Facilities personnel
<b>Provide a timeline for the actions:</b>	Department Chair has done preliminary costing There is no specific timeline due to current budget issues and focus on higher current priorities.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Objective will have been achieved when the facility has been installed and is functional
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff, Faculty, Other):</b>	Budget for Acquisition and Installation of storage facility.

Status for Tool Storage Shed

*No Status Added*

**Goal: Repainting the Exterior of the Design Center**

An important goal at this time is to repair and repaint the exterior of the entire Design Center. To facilitate this, Department Faculty will develop a series of workshops that will allow us to involve and work directly with students in the Architecture and Interior Design Programs to develop a master plan paint scheme for the Design Center. The painting itself will be performed by a professional painting contractor who will be recommended and vetted by the District Architect, Lance Lareau.

It should be noted that District Architect, Lance Lareau, has developed a scope of work and cost for the replacement of the fascia's. He has not developed a final schedule for that work at this time.

This goal supports all faculty and students within the Department of Architecture and Environmental Design.

**Action:** Repainting the Exterior of the Design Center

<b>Describe the actions needed to achieve this objective:</b>	Preliminary schemes for painting have been developed by students in the Interior Design Program. A final scheme has not been selected or approved to date. Ongoing exploration of painting options is expected to continue for at least an additional semester or two. District Architect will then review and approve plans and work to identify budget source and contractor.
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<b>Who will be responsible for overseeing the completion of this objective:</b>	District Architect/Facilities
<b>Provide a timeline for the actions:</b>	Current timeline has not been developed although replacement of some portions of rotted fascia are in the process of being replaced.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Visual inspection
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff, Faculty, Other):</b>	Undetermined at this time.

Status for Repainting the Exterior of the Design Center

*No Status Added*

**Goal: Art Installation at the Design Center**

Our goal at this time is to propose an initial installation of three versions of Le Corbusier’s Modular Man. Department Faculty will develop the drawings for fabrication in steel plate, the concrete base details and color selections. The fabrication itself will be performed by a professional steel fabricator. The installation will be performed by a contractor that will be recommended and vetted by the District Architect, Lance Lareau.

**Action: Art Installation at the Design Center**

<b>Describe the actions needed to achieve this objective:</b>	Initial installation has been proposed Proposal needs to be reviewed and accepted by District Architect Proposal needs to be reviewed and accepted by District
<b>Who will be responsible for overseeing the completion of this objective:</b>	District Architect
<b>Provide a timeline for the actions:</b>	No specific timeline or budget has been established.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Completion of Installation will confirm achievement of objective.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer</b>	Resources required have not been identified at this time.

**Equipment, Travel & Conference, Software, Facilities, Classified Staff, Faculty, Other):**

Status for Art Installation at the Design Center

*No Status Added*

**Goal: Design Center Building Maintenance**

A continuing challenge is the lack of maintenance, primarily of the exterior of the buildings at the Design Center. After living with the Design Center for eight years, we have discovered that there are many areas of the exterior that need attention. Constructed in 1953, the Design Center buildings are over 60 years old, the oldest on Campus, and even though minor exterior improvements were made during the remodel, there are a number of areas that need immediate and long-term attention. Following is a list of items that need attention:

- Replacement of fascia's.
- Paint, particularly, wood trim, doors, etc.
- Roofs appear to be leaking in virtually every classroom, office, etc.
- Interior ceiling repairs due to roof leaks.
- Air conditioning and heating operation issues.
- Landscape maintenance.

This goal supports all faculty and students within the Department of Architecture and Environmental Design.

**Action: Design Center Building Maintenance**

<b>Describe the actions needed to achieve this objective:</b>	Budget for necessary maintenance and repairs (currently an issue due to budget shortfall within the district).
<b>Who will be responsible for overseeing the completion of this objective:</b>	Facilities District Architect
<b>Provide a timeline for the actions:</b>	No specific timeline has been established. Much of the needed maintenance has be deferred for a significant period of time (years) already.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Visual assessment that needed maintenance has been completed and a lack of roof leaks.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff,</b>	Total resources required have not been identified. Most issues have been identified and are awaiting high enough priority to act upon.

**Faculty, Other):**

Status for Design Center Building Maintenance

*No Status Added*

**Goal: Replacement of Model Building Equipment**

With access to a fully integrated model building lab, students trained in the use of model building equipment such as laser engravers and 3D printers and methods are able to use this knowledge to complete a wide range of projects across the curriculum. We currently own three Epilog Laser Engravers. Are needs being in the area of future replacement of these engravers as they become obsolete. Fortunately, they are functioning properly at this time, but we do see a time, in the near future where these engravers will need to be replaced.

We have attached a cost estimate for the purchase of the laser engravers.

It should be noted that the laser engravers are and will be available for all programs within the Department.

**Action: Replacement of Model Building Equipment**

<b>Describe the actions needed to achieve this objective:</b>	Select, purchase, and install new laser engravers.
<b>Who will be responsible for overseeing the completion of this objective:</b>	Department Chair Facilities
<b>Provide a timeline for the actions:</b>	No specific timeline available at this time.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	Assessment plan will consist of installation, commissioning, and utilization of stated equipment.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff, Faculty, Other):</b>	Cost estimate has been established by Department Chair.

Status for Replacement of Model Building Equipment

*No Status Added*

### Goal: New Exhibit Gallery Building

A short term goal is our proposal for a new exhibit gallery building at the Design Center. The gallery will be used for exhibiting the work of students and professionals. Professionals would be invited to lecture and exhibit their work. Utilizing the existing auditorium and new gallery for lectures and exhibits by visiting designers will bring working professionals and their work to students in the Department as well as the Campus at large.

We have felt the need for a building of this type for some time and have discussed ways to approach the realization of such a project. Upon viewing student designed exhibit gallery projects at last year's annual student exhibit, Former Vice President of Instruction, Tim McGrath and our Dean, Charles Zappia, encouraged faculty to pursue the project through the appropriate channels.

During the Summer of 2018, faculty from the Architecture Program developed detailed preliminary design drawings for the building and related landscape improvements.

#### Action: New Exhibit Gallery Building

<b>Describe the actions needed to achieve this objective:</b>	Finalize design requirements. Gain approval from Mesa and District Develop Budget and receive funding Hire Contractor and construct
<b>Who will be responsible for overseeing the completion of this objective:</b>	District Architect Facilities
<b>Provide a timeline for the actions:</b>	Currently there is no timeline for this.
<b>Describe the assessment plan you will use to know if the objective was achieved and effective:</b>	When the project is complete and functioning.
<b>List resources needed to achieve this objective and associated costs (Supplies, Equipment, Computer Equipment, Travel &amp; Conference, Software, Facilities, Classified Staff, Faculty, Other):</b>	Currently this is in the conceptual stage.

#### Status for New Exhibit Gallery Building

*No Status Added*

## Request Forms

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### CLASSIFIED POSITION, BARC AND FACULTY POSITION REQUEST

**File Attachments:**

1. **BARC requests 2019-2020 - 6-total.pdf**

## Reviewers

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### LIAISON'S REVIEW

**Form:** Instructional Program Liaison's Review 2019/20 UPDATE

### MANAGER'S REVIEW

**Form:** Instructional Program Manager's Review 2019/20 UPDATE



# Appendix

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- A. **2019/20 Program Review Outcomes and Assessment Section** (Form)
  - B. **2019/20 Program Review Instructional Program Analysis Section** (Form)
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# Form: "2019/20 Program Review Outcomes and Assessment Section"

**Created with :** Taskstream

**Participating Area:** Building Construction Technology

## **(REQUIRED) Program name**

Building Construction Technology

## **(REQUIRED) Are you on target with your assessment schedule?**

On target to date

## **(REQUIRED) What have your assessments revealed about your courses/programs/service area/school/division/office?**

Building Construction Technology to date has been hitting target goals with respect to student success.

## **(REQUIRED) Based on your assessments, what resource needs have you identified?**

A number of resource needs have been identified for the program, however, these needs were not identified as a result of outcomes assessments.

## **Please provide any other comments.**

The Building Construction Technology Program is still reviewing and evolving with the outcomes assessment process.

Major questions with regards to outcomes assessment that we are exploring are:

- Currency - due to the rapid evolution of technology, events, climate change issues, political uncertainty, equity issues, etc., are ILOs, PLOs, and CLOs adequately assessing outcomes relevant to the future?
- Adequacy - have we chosen the best assessment tools moving forward?
- Quality - are the tools we are using for assessment providing meaningful feedback to insure future success and equity for all students.
  - Do we need to develop assessment arrays to better address success and equity in diverse student populations?
- Tradeoffs - Is success and equity for the majority achieved at a cost to some groups and/or individuals?
- Success and Equity - Are they same thing for all or are they different for each individual? (Universal or student specific?)
- Transferability - How does assessment at Mesa and success and equity in our students transfer outside of the institution?

# Form: "2019/20 Program Review Instructional Program Analysis Section"

Created with : Taskstream

Participating Area: Building Construction Technology

## Program Name

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**(REQUIRED) Type your program name.**

Building Construction Technology

**Part A: In this section, please analyze your program in terms of course success metric. Start by disaggregating the available data by race, gender, and any other parameters of interest to your program and answer the following questions.**

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**(REQUIRED) A1. What patterns do you notice with regard to equity in course success at the program level by race/ethnicity?**

You may also conduct analysis by course and/or by modality.

Equity Gap: When a group of students who share a common characteristic (e.g. race/ethnicity) have lower access and/or outcome rates than their peers. The size of the equity gap along with the size of the group determine whether that gap is significant. Larger groups should, statistically, have smaller gaps and therefore when gaps are present (even small ones) they may be significant. Smaller groups will see wider variation in outcomes, therefore gaps should be seen consistently over time and/or reviewed by looking at multiple years in aggregate to determine if they are significant.

As a preface to statistics for the program review it should be noted that the program is relatively small with the predominate breakdown of the student population being classified as Latinx or White with relatively small representation from other ethnicities. Because of this the statistical data can be dramatically impacted by relatively small numbers of students in many categories. The split for Female:Male is approximately 55:45 for Mesa as a whole and 26:74 for BLDC as of Fall 2018 data (improvement from Fall 2014 when the split was 19:81). There is also less diversity in the Female student population than the Male student population.

Looking at the Mesa as a whole for Fall 2018 the success equity gap for the school as a whole is for Latinx and Non-Latinx is -4% (Latinx) and +3% (Non-Latinx). For BLDC for the same reporting period we are showing equity success equity gaps of 0% for both Latinx and Non-Latinx.

When looking at equity in course success disaggregated by ethnicity for Mesa as a whole there is very little difference between Fall 2018 data and data for all terms. The largest equity gaps show for African-American as -9% for all terms (-10 for Fall 2018) and +8% (all terms and Fall 2018) for Asian. For BLDC the equity gap for African-American is +2% for all terms. For Asian students the success equity gap is -2% for all terms in BLDC versus +8% for Mesa as a whole. The Philipino students show a success equity gap of +16%. Success equity gaps in general for BLDC based on ethnicity and gender are positive in relation to Mesa as a whole.

The most interesting thing to the Program is that when looking at students by age there are some significant equity gaps that reveal themselves when looking at the factor of age – particularly in students in the 18-24-years age bracket and White Students in the 40-49-years age bracket. Unlike Mesa as a whole which has approximately 57% of the students in the 18-24-year age bracket this group only comprises approximately 20.8 % of the BLDC student population. While the White students in the 40-49-year bracket show a -10% success

equity gap, the Latinx students in this age demographic show a +15% equity gap. 40-49-year old students comprise approximately 13% of the BLDC student population over the 5-year reporting period. This is approximately 2.5 times larger proportionally than Mesa as a whole. Students in the 50-years and up category comprise approximately 16.2% of the student population which is approximately 8 times larger than the percentage for Mesa as a whole and based on ethnicity these all show positive equity gaps.

**(REQUIRED) A2. Do these patterns persist over time (e.g., look at the last five years)? Describe if equity gaps are increasing, decreasing, or staying the same?**

Based on data reviewed equity gaps have been relatively stable over the past 5-years and relative small when compared to the institution as a whole and when looked at in the light of ethnicity and gender.

No major trends in equity gaps are readily apparent.

**(REQUIRED) A3. What factors may have influenced these results? What are your most significant findings?**

The most significant factor that appears from the data is that the student population of the BLDC Program is older than Mesa's population as a whole. Since the program is part of Career Technical Education (CTE) it may be that many of our students have gone directly from High School into the work force and are coming back to improve basic skills or specific skills to help them advance in the construction industry. Since they most are older than the majority of students at Mesa they also have more life experience to draw upon which may assist

with dealing with adjustments to the educational experience at Mesa. It is believed that many aren't here to find a path as novices but have chosen a path to either change careers or move their own career into a higher arc based experience and feedback they have received in the non-academic world and operate from a more informed level of knowledge.

**(REQUIRED) A4. How have you/might you alter practices to increase student success and reduce equity gaps?**

We have not made significant changes in our practices related to student success and reduce equity gaps. What the BLDC program participants attempt to do is:

- Treat each student as an individual and embrace the uniqueness of their experience at Mesa
- Foster courtesy and respect for all
- Treat students as equals
- Provide as much individual attention to student issues and needs as time allows
- Provide direction to other student support resources available at Mesa
- Strive to improve both the instructional and student experience every semester

**(REQUIRED) A5. How does your program contribute to the College's identity of being a Hispanic Serving Institution?**

San Diego Mesa College is proud to be formally designated a Hispanic Serving Institution by the United States Department of Education. The purpose of this designation is to provide Mesa College the opportunity to improve the academic attainment of Latino/a, Chicano/a, Hispanic, or similar identities, and low-income students. Being an HSI means we are a reflection of our students,

their cultures, values, and life experiences. It guides the direction of the college and how we go about the work that we do. Every student deserves to feel connected and safe on campus and to have access to the programs and services to successfully reach their goals. As a Hispanic Serving Institution, Mesa is committed to be the Leading College of Equity and Excellence. (From the Mesa Website).

The BLDC website supports and contributes to Mesa's identity as a Hispanic Serving Institution. Latinx students are approximately 37% of Mesa's total student population as of Fall 2018 and the proportion of BLDC's student population was 38% for the same period (46% for 2017-2018). BLDC program helps prepare students for work in the construction industry. In southern California the majority of subcontractors and tradespeople are Hispanic/Latin X. BLDC instructors are supportive of Mesa institutional goals and initiative and are committed to the success of all students.

**(REQUIRED) A6. Have you identified resource needs? If yes, please list.**

- Upgraded Audio/Visual facilities in Z-101 (and other rooms used for instruction)
- New storage facilities for materials and equipment related to class instruction
- Design Center repairs/upgrades
- New/Improved equipment utilized in training

**(REQUIRED) A7. Do any of your program goals address these implications or needs? If not, please develop a new goal that addresses your findings and subsequent reflection.**

Current Program Goals address the needs listed in A6 above.

**Part B: In this section, look at the area of focus you identified in last year's program review and answer the following questions.**

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**(REQUIRED) B1. How have you developed this focus? Are you seeing any results? What are your next steps?**

The program focus appears to be validated. Students success and equity are at or above target goals. While enrollment seems to be dropping across campus the demand and enrollment for BLDC has been holding steady.

We are seeing positive results with a more or less flat trend line over time.

The next steps are:

- Keep gathering data
- Analyze the data obtained
- Work with students, other faculty, and advisory committee to obtain feedback and ideas for instructional improvement and student support
- Implement changes as permitted
- Review and verify efficacy of changes
- Repeat the processes