<table>
<thead>
<tr>
<th>2010 Program Review: Instructional Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Collision Repair Technology</td>
</tr>
<tr>
<td>Auto Tech</td>
</tr>
<tr>
<td>Biology</td>
</tr>
<tr>
<td>English Skills (Basic Skills)</td>
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<tr>
<td>Credit ESL</td>
</tr>
<tr>
<td>Dental Assisting</td>
</tr>
<tr>
<td>Drama</td>
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<tr>
<td>Early Childhood Education</td>
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<tr>
<td>Environmental Landscaping Design</td>
</tr>
<tr>
<td>Health Center</td>
</tr>
<tr>
<td>Library</td>
</tr>
<tr>
<td>Machine Metals Technology</td>
</tr>
<tr>
<td>Music</td>
</tr>
</tbody>
</table>
This section will be filled out by faculty and reviewed by the Department Chair, the ARea Dean, the Instructional Equipment Committee, IPC and Budget.

Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests").

Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>500 Students</td>
<td>Over $200 Each</td>
<td>Hybrid/Electrical</td>
</tr>
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Description and part number for ordering:

Lithium Batteries and Balancers for Miata Project. This is a set of batteries and balancers.

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One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means you would like this piece of equipment for your course(s) but can wait for a future academic year.

A -- Electric vehicles today have switched from older battery technology (lead-acid) to lithium. The ACRT and Electronics program built our first electric car using lead-acid batteries. Our second electric car is designed to run on lithium batteries. We need to purchase lithium batteries so that we can complete our second electric vehicle. This program has much community support. We will continue to teach members of the community the importance of electric vehicles and demonstrate how electric vehicles reduce the dependence of foreign oil. With these lithium batteries we can now teach both major power sources available to electric vehicles.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

The automotive field is changing rapidly. Many car manufacturers are building Hybrids
or Electric vehicles to cut dependency on foreign oil. Electric vehicles manufacturers are switching from old battery technology to lithium. We need to teach students the most modern battery technology and how to deal with the unique differences of lithium batteries. By using lithium batteries, Electric vehicles will have a longer range and faster charging rate.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

This will definitely attract students to COM. COM will attract students from the entire Bay Area by having a wide range of Electric Vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available. A lithium powered Electric Vehicle will keep us on the forefront of technology. We will be the only school in the area with working student built vehicles of both battery types.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Automobile manufacturers will be introducing lithium powered Electric Vehicles in 2011. Students entering the field of Electric Vehicles need training and experience on vehicles operated on lithium power to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and shortcomings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

The best way to measure success is through enrollment and number of students successfully completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:
The Electric Vehicle program has much support from the community. COM is leading the way by showing it is feasible to convert vehicles from gas to electric. The entire world is looking for ways to cut their dependency on oil.

<table>
<thead>
<tr>
<th>I. Instructional Equipment/Materials Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Priority:</strong> 02</td>
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</table>

**Description and part number for ordering:**
Updated Toyota Scan Tool

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<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
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<td>$500.00</td>
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<td>$5,600.00</td>
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**One-time expenses:** (e.g. construction, electrical, installation)

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)
Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   
   A- Cannot teach Hybrid Plug-in Upgrades without this tool. Necessary for initial check-out of vehicle and post-check of upgraded car.
   
   This program has much community support. We will continue to teach members of the community the importance of electric vehicles and demonstrate how electric vehicles reduce the dependence of foreign oil. With this scan tool we can now teach hybrid maintenance.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   
   No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   The automotive field is changing rapidly. Many car manufacturers are building Hybrids or Electric vehicles to cut dependency on foreign oil. We need to teach students the most modern battery technology and how to deal with the unique differences of hybrids.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

   This will definitely attract students to COM. COM will attract students from the entire Bay Area by having a wide range of Electric Vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available. We will be the only school in the area with working student built vehicles of both battery types.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

   All automobile manufacturers will be introducing hybrids in 2011/2012. Students entering the field need training and experience on hybrid vehicles to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and short-comings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

   The best way to measure success is through enrollment and number of students successfully completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and
can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>03</td>
<td>500 Students</td>
<td>Over $200 Each</td>
<td>Hybrid/Electrical</td>
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Description and part number for ordering:
Pruis Battery for classroom.

<table>
<thead>
<tr>
<th>Qty</th>
<th>Unit Cost</th>
<th>Tax</th>
<th>Shipping</th>
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One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B - Students need to be able to remove, dismantle, test, assemble and re-install hybrid batteries. This will enable us to teach the methods necessary. This program has much community support. We will continue to teach members of the community the importance of electric vehicles and demonstrate how electric vehicles reduce the dependence of foreign oil. With these lithium batteries we can now teach both major power sources available to electric vehicles.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   The automotive field is changing rapidly. Many car manufacturers are building Hybrids or Electric vehicles to cut dependency on foreign oil. Electric vehicles manufacturers are switching from old battery technology to lithium. We need to teach students the most modern battery technology and how to deal with the unique differences of lithium batteries.

4. How will access for students be improved? How many students (annually) will benefit from
this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

This will definitely attract students to COM. COM will attract students from the entire Bay Area by having a wide range of Electric Vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available. We will be the only school in the area with working student built vehicles of both battery types.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Automobile manufacturers will be introducing lithium powered Electric Vehicles in 2011. Students entering the field of Electric Vehicles need training and experience on vehicles operated on lithium power to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and short-comings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

The best way to measure success is through enrollment and number of students successfully completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority: 04</th>
<th>To Support: 500 Students</th>
<th>Category: Over $200 Each</th>
<th>Discipline Area: Hybrid/Electrical</th>
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Description and part number for ordering:
Pruis Plug-in Conversion for the class room

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<th>Qty.</th>
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</table>

One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
- ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
- ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
- ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

B - Currently we can only show pictures of how these plug-in conversions are done. With this unit, we can teach hands-on what items are included in an plug-in conversion; what problems may exists; and how the unit is installed.

This program has much community support. We will continue to teach members of the community the importance of electric vehicles and demonstrate how electric vehicles reduce the dependence of foreign oil. With this conversion we can now teach both major power sources available to electric vehicles.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

The automotive field is changing rapidly. Many car manufacturers are building Hybrids or Electric vehicles to cut dependency on foreign oil. Electric vehicles manufacturers are switching from old battery technology to lithium. We need to teach students the most modern battery technology and how to deal with the unique differences of lithium batteries. By using lithium batteries, Electric vehicles will have a longer range and faster charging rate.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

This will definitely attract students to COM. COM will attract students from the entire Bay Area by having a wide range of Electric Vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available. This conversion kit will keep us on the forefront of technology. We will be the only school in the area with working student built vehicles of both battery types.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Automobile manufacturers will be introducing lithium powered Electric Vehicles in 2011. Students entering the field of Electric Vehicles need training and experience on vehicles operated on lithium power to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and short-comings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

The best way to measure success is through enrollment and number of students successfully completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at
state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:
The Electric Vehicle program has much support from the community. COM is leading the way by showing it is feasible to convert vehicles from gas to electric. The entire world is looking for ways to cut their dependency on oil.

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### I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>Category</th>
<th>Discipline Area</th>
<th>To Support</th>
<th>Description and part number for ordering:</th>
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<td>Over $200 Each</td>
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<td>Midtronics Hybrid Battery Tester</td>
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One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

**Justification for Item (See Rating Rubric)**

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   A- Electric vehicles today have switched from older battery technology (lead-acid) to lithium. The ACRT and Electronics program built our first electric car using lead-acid batteries. Our second electric car is designed to run on lithium batteries. We need to this tester so that we can complete our second electric vehicle. This program has much community support. We will continue to teach members of the community the importance of electric vehicles and demonstrate how electric vehicles reduce the dependence of foreign oil. Students need to be able to run diagnostics on existing hybrid battery systems in vehicles. They will also be able to test individual cells for replacement.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   The automotive field is changing rapidly. Many car manufacturers are building Hybrids or
Electric vehicles to cut dependency on foreign oil. Electric vehicles manufacturers are switching from old battery technology to lithium. We need to teach students the most modern battery technology and how to deal with the unique differences of lithium batteries. By using lithium batteries, Electric vehicles will have a longer range and faster charging rate.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

This will definitely attract students to COM. COM will attract students from the entire Bay Area by having a wide range of Electric Vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available. We will be the only school in the area with working student built vehicles of both battery types.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Automobile manufacturers will be introducing lithium powered Electric Vehicles in 2011. Students entering the field of Electric Vehicles need training and experience on vehicles operated on lithium power to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and short-comings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

The best way to measure success is through enrollment and number of students successfully completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:

The Electric Vehicle program has much support from the community. COM is leading the way by showing it is feasible to convert vehicles from gas to electric. The entire world is looking for ways to cut their dependency on oil.

I. Instructional Equipment/Materials Requirements

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<th>Priority</th>
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<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>06</td>
<td>500 Students</td>
<td>Over $200 Each</td>
<td>Hybrid/Electrical</td>
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Description and part number for ordering:
Fluke Insulation Tester 1587ET

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One-time expenses: (e.g. construction, electrical, installation)
On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

B - We are currently not testing the insulation of the high voltage cables that we use. We are also not testing the cable in the cars that we convert. This program has much community support. We will continue to teach members of the community the importance of electric vehicles and demonstrate how electric vehicles reduce the dependence of foreign oil.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   The automotive field is changing rapidly. Many car manufacturers are building Hybrids or Electric vehicles to cut dependency on foreign oil. Electric vehicles manufacturers are switching from old battery technology to lithium. We need to teach students the most modern battery technology and how to deal with the unique differences of lithium batteries. We need to be able to test the insulation on all cables.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

   This will definitely attract students to COM. COM will attract students from the entire Bay Area by having a wide range of Electric Vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available. We will be the only school in the area with working student built vehicles of both battery types.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

   Automobile manufacturers will be introducing lithium powered Electric Vehicles in 2011. Students entering the field of Electric Vehicles need training and experience on vehicles operated on lithium power to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and short-comings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

   The best way to measure success is through enrollment and number of students successfully
completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:
The Electric Vehicle program has much support from the community. COM is leading the way by showing it is feasible to convert vehicles from gas to electric. The entire world is looking for ways to cut their dependency on oil.

I. Instructional Equipment/Materials Requirements

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<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>07</td>
<td>500 Students</td>
<td>Over $200 Each</td>
<td>Hybrid/Electrical</td>
</tr>
</tbody>
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Description and part number for ordering:
Batteries and upgrade parts for existing COM Ford Think

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<th>Qty.</th>
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One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   B -- We are to take the existing Ford Battery Powered Vehicle from Kentfield and use our Hybrid/electrical Class to upgrade and repair. We cannot start without the items for repair or the new batteries.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   This will be an excellent chance to teach trouble shooting; to teaching a project approach to repairing a “dead” electrical vehicle; and to teach the step-by-step process necessary.
The automotive field is changing rapidly. Many car manufacturers are building Hybrids or Electric vehicles to cut dependency on foreign oil. Electric vehicles manufacturers are switching from old battery technology to lithium. We need to teach students the most modern battery technology and how to deal with the unique differences of lithium batteries.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

This will definitely attract students to COM. COM will attract students from the entire Bay Area by having (4) separate, different types of electrical vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Automobile manufacturers will be introducing lithium powered Electric Vehicles in 2011. Students entering the field of Electric Vehicles need training and experience on vehicles operated on lithium power to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and short-comings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

The best way to measure success is through enrollment and number of students successfully completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:

The Electric Vehicle program has much support from the community. COM is leading the way by showing it is feasible to convert vehicles from gas to electric. The entire world is looking for ways to cut their dependency on oil.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>08</td>
<td>500 Students</td>
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<td>Hybrid/Electrical</td>
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</table>

Description and part number for ordering:

Upgraded gauges for the VW Thing, the Miata and the Ford Think. Pak-Trac systems for each

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<th>Qty.</th>
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One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   B - Improves the ability for students to observe, data collect and suggest improvements in the power management of the three vehicles.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   The automotive field is changing rapidly. Many car manufacturers are building Hybrids or Electric vehicles to cut dependency on foreign oil. Electric vehicles manufacturers are switching from old battery technology to lithium. We need to teach students the most modern battery technology and how to deal with the unique differences of lithium batteries. We need to be able to collect accurate data for review.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   This will definitely attract students to COM. COM will attract students from the entire Bay Area by having a wide range of Electric Vehicles for students to work on and the most up to date Electric Vehicle technology. We are the only school in the area that teaches a truly hands on Electric Vehicle and Hybrid maintenance class. Students learn the most current and up to date technology available. We will be the only school in the area with working student built vehicles of both battery types.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   Automobile manufacturers will be introducing lithium powered Electric Vehicles in 2011. Students entering the field of Electric Vehicles need training and experience on vehicles operated on lithium power to be successful in repair and diagnosis of these power systems. Students need to be ready to meet the demands of the new and evolving jobs in auto technology with the understanding of the benefits and short-comings of different power sources.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
   The best way to measure success is through enrollment and number of students successfully
completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:
The Electric Vehicle program has much support from the community. COM is leading the way by showing it is feasible to convert vehicles from gas to electric. The entire world is looking for ways to cut their dependency on oil.

---

### I. Instructional Equipment/Materials Requirements

<table>
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<th>To Support:</th>
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<tr>
<td>09</td>
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<td>Over $200 Each</td>
<td>ACRT</td>
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**Description and part number for ordering:**
Attachments for Frame Rack.

<table>
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<th>Qty.</th>
<th>Unit Cost:</th>
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**One-time expenses:** (e.g. construction, electrical, installation)

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)

**Item to be shared with the following Department/Program:** (Include any shared expenses)

**Do you have space for this equipment?**

**Justification for Item (See Rating Rubric)**

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

A. This piece of equipment should have been purchased at the same time the Goliath Frame Rack was purchased with modernization funds. We had asked for this piece of equipment to be included but because the modernization project hired consultants to do the purchasing, there was a lack of communication between Transitions and the ACRT department. Some equipment was mis ordered or left out completely. This piece of equipment is vital to making the Goliath Frame Rack operational.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)

Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

Without this piece of equipment, it is virtually impossible to use the new frame rack
that Modernization funds purchased. We still have some of the attachment pieces but most of them are the wrong size and shape and therefore don't teach the students how to do frame straightening properly.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

College of Marin ACRT program has the most up to date training facility. It is important we obtain this piece of equipment so that our frame rack is a usable piece of equipment instead of just taking up space in the shop.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

With this piece of equipment, students will learn the proper method of straightening frames on vehicles.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Enrollment in the Frame Straightening & Alignment class will increase because we will have the up to date frame straightening equipment.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
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<tbody>
<tr>
<td>10</td>
<td>0500 Students</td>
<td>Over $200 Each</td>
<td>ACRT</td>
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Description and part number for ordering:
Master Accessories Clamping & Tool Package including part numbers: 697150 619158 200033 091900 697730

<table>
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<td>$1,218.00</td>
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One-time expenses: (e.g. construction, electrical, installation)
The Transportation Technology Modernization project was supposed to fund this piece of equipment. The company in charge of purchasing tools and equipment did not order the Goliath Frame Rack as specified. When shopping for the cheapest bid, they left off the accessory pack. The new Goliath Frame rack is unusable without the accessory equipment.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
none

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment?

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a
future academic year.
A. We will not be able to teach the Frame Straightening Alignment class without the accessory pieces of equipment. The modernization project purchased the Goliath Frame rack without the accessories. The accessories are an essential part of using the Goliath Frame rack.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
We will be able to teach the Frame Straightening and Alignment course as intended. Several different courses in the ACRT discipline use this piece of equipment.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
We have the most modern and up to date facility in the state. We need to complete the purchasing of the attachments with the Goliath Frame Rack so it is usable. All students in the ACRT program are expected to be knowledgeable in the use of the Goliath Frame Rack and frame measurement system.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will learn the proper method of straightening frames on vehicles. Students will also be able to assess which attachment devices to use for the variety of different frame damage.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
The best way to measure success is through enrollment and number of students successfully completing AS degrees, master technician certification, career and skill certificates and ACRT classes. The Auto Collision Repair classes are grouped together so students can earn skill certificates and career certificates. Some students may choose to go to four year institutions and can use the courses they've taken in the ACRT program for either electives or required courses at state universities. In recent years, some of our students have transferred to state colleges such as Chico State University to enroll in the Manufacturing Technology program and other related degrees.

Additional Justification for this item:
Instructional Equipment

Auto-2010

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests". Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

Priority: To Support: Category Discipline Area
01 10 Classes Over $200 Each AUTO

Description and part number for ordering:
Mastertech VCI with NETGEAR Router Kit (Scan Tool) Domestic Region & Asian Combo Program

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<tr>
<th>Qty.</th>
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One-time expenses: (e.g. construction, electrical, installation)
none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
none

Item to be shared with the following Department/Program: (Include any shared expenses)
none

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   "A"

This scan tool was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool. It is the newest scan tool from Bosch Diagnostics and represents the industry move from stand-alone scan tools to PC based scan tools. Without learning this new technology our graduates will not be prepared to enter the workforce with the required industry standard technological skills.
2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   It is the industry standard technology scan tool from Bosch Diagnostics and represents the industry move from stand-alone scan tools to PC based scan tools. Without learning this new technology our graduates will not be prepared for the job.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

   This type of technology will be used by almost every student in every class. Vehicles all now use a Communication Area Network (CAN) where all the vehicles systems communicate on a single bus. Replacing a brake light bulb with a bulb with a different wattage could cause a vehicle to not start. Students need to be knowledgeable in use of these types of scan tools to be able to perform even the simplest tasks.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

   One of the Student Learning Outcomes states that a student will be able to demonstrate the use of current technology used in the Automotive Service and Repair Industry. This is the technology used today.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

   Students are required to show competence in the use of equipment both on manipulative and written tests.

Additional Justification for this item:

This scan tool was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>02</td>
<td>10 Classes</td>
<td>Over $200 Each</td>
<td>AUTO</td>
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</table>

Description and part number for ordering:

OTC Pegisys Wireless Diagnostic System

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One-time expenses: (e.g. construction, electrical, installation)

   none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
Item to be shared with the following Department/Program: (Include any shared expenses)
no

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
"A"

This scan tool was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool. It is the newest scan tool from OTC Diagnostics and represents the industry move form stand-alone scan tools to PC based scan tools. Without learning this new technology our graduates will not be prepared to enter the workforce with the required industry standard technological skills.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   It is the industry standard technology scan tool from OTC Diagnostics and represents the industry move form stand-alone scan tools to PC based scan tools. Without learning this new technology our graduates will not be prepared for the job.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   This type of technology will be used by almost every student in every class. Vehicles all now use a Communication Area Network (CAN) where all the vehicles systems communicate on a single bus. Replacing a brake light bulb with a bulb with a different wattage could cause a vehicle to not start. Students need to be knowledgeable in use of these types of scan tools to be able to perform even the simplest tasks.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   One of the Student Learning Outcomes states that a student will be able to demonstrate the use of current technology used in the Automotive Service and Repair Industry. This is the technology used today.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Students are required to show competence in the use of equipment both on manipulative and written tests.

Additional Justification for this item:
This scan tool was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool.

I. Instructional Equipment/Materials Requirements

<table>
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<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>22 Classes</td>
<td>Over $200 Each</td>
<td>AUTO</td>
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Description and part number for ordering:
ELMO Document Camera

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One-time expenses: (e.g. construction, electrical, installation)
none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
none

Item to be shared with the following Department/Program: (Include any shared expenses)
no

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   "B"

This camera was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

Demonstrating hand-held meters and digital storage oscilloscopes and scan tools is worthless when presenting to a large group. The most productive way to make this type of presentation is to project the images on to a large screen. The document camera makes this very easy to do.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

Instructors will use this in almost all classes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

One of the Student Learning Outcomes states that a student will be able to demonstrate the use of current technology used in the Automotive Service and Repair Industry. This camera will enhance the students access to the use of current technology.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Students are required to show competence in the use of equipment both on manipulative and written tests.

Additional Justification for this item:

This camera was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool.

I. Instructional Equipment/Materials Requirements

<table>
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<th>Priority</th>
<th>To Support</th>
<th>Category</th>
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</thead>
<tbody>
<tr>
<td>04</td>
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<td>Over $200 Each</td>
<td>AUTO</td>
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Description and part number for ordering:

MODIS Elite 9.2 MODIS CF Kit

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One-time expenses: (e.g. construction, electrical, installation)

none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

none

Item to be shared with the following Department/Program: (Include any shared expenses)

none
Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   "A"

This scan tool update was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool. It is the newest scan tool update from Snap-On Diagnostics. Without learning this new technology our graduates will not be prepared for the job.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   It is the newest scan tool update from Snap-On Diagnostics. Without learning this new technology our graduates will not be prepared for the job.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

   This type of technology will be used by almost every student in every class. Vehicles all now use a Communication Area Network (CAN) where all the vehicles systems communicate on a single bus. Replacing a brake light bulb with a bulb with a different wattage could cause a vehicle to not start. Students need to be knowledgeable in use of these types of scan tools to be able to perform even the simplest tasks.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

   One of the Student Learning Outcomes states that a student will be able to demonstrate the use of current technology used in the Automotive Service and Repair Industry. This is the technology used today.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

   Students are required to show competence in the use of equipment both on manipulative and written tests.

Additional Justification for this item:

This scan tool update was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. Without learning this new technology our graduates will not be prepared for the job.
expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>10 Classes</td>
<td>Over $200 Each</td>
<td>AUTO</td>
</tr>
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**Description and part number for ordering:**

VERUS ELITE Service Cart

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**One-time expenses:** (e.g. construction, electrical, installation)

*none*

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)

*none*

**Item to be shared with the following Department/Program:** (Include any shared expenses)

*none*

**Do you have space for this equipment?**

*Yes*

**Justification for Item (See Rating Rubric)**

1. Indicate how important this item is to the life of your discipline.
   - ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   - ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   - ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   "B"

This scan tool was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool. It is the newest scan tool from Snap-On Diagnostics. Without learning this new technology our graduates will not be prepared for the job.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   *no*

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   It is the newest scan tool from Snap-On Diagnostics. Without learning this new technology our graduates will not be prepared for the job.
4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

This type of technology will be used by almost every student in every class. Vehicles all now use a Communication Area Network (CAN) where all the vehicles systems communicate on a single bus. Replacing a brake light bulb with a bulb with a different wattage could cause a vehicle to not start. Students need to be knowledgeable in use of these types of scan tools to be able to perform even the simplest tasks.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

One of the Student Learning Outcomes states that a student will be able to demonstrate the use of current technology used in the Automotive Service and Repair Industry. This is the technology used today.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Students are required to show competence in the use of equipment both on manipulative and written tests.

Additional Justification for this item:

This scan tool was funded through the modernization project for the Transportation Technologies Complex. I was told that I did not have to prioritize my list of equipment if I stayed under the allocated dollar amount. They ordered from the top of the list working down until 85% of the budget was spent. They would order the last 15% after the first group was received in case there were any unexpected expenses. After everything was received they cut the last 15%. Had I known this I would have prioritized the equipment as this is a very important tool.
Instructional Equipment

BIOL-2010

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS...(Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests". Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>01</td>
<td>27 Classes</td>
<td>Over $200 Each</td>
<td>Biology</td>
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</table>

Description and part number for ordering:

pH Meters

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<th>Qty</th>
<th>Unit Cost</th>
<th>Tax</th>
<th>Shipping</th>
<th>Total</th>
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<td>$100.00</td>
<td>$2,100.00</td>
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</table>

One-time expenses: (e.g. construction, electrical, installation)

No special construction, electrical or installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Unit would be maintained and care for by current staff. No additional staffing or upgrades would be needed.

Item to be shared with the following Department/Program: (Include any shared expenses)

Environmental Landscaping and Geology Department.

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   A This item has been requested 3 times now.

   These items would be shared with the Environmental Landscaping program as well as the Geology program. A growing number of courses has forced upon us the need for additional pH meters to keep up with the various number of labs that require them for the proper education of our students. These are small expenditures that have a great deal of impact on the quality of learning in the labs.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   no
3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

Through the use of these meters, students will increase their understanding of foundational scientific principles. This equipment is necessary for students to succeed in not only General Biology, but many other classes that General Biology is a pre-req. for.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

Approximately 548 students will benefit on an annual basis, and is part of a required lab for General Biology, Human Physiology, Biology 112A, and Biology 112C.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Students will demonstrate proficiency in basic scientific equipment, along with the understanding of foundational scientific and biological concepts.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Outcomes will be measured through lab practicals. Data is currently being gathered.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>48 Classes</td>
<td>Over $200 Each</td>
<td>Biology</td>
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</table>

Description and part number for ordering:
PROCELL (complete) with power supply.

<table>
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</table>

One-time expenses: (e.g. construction, electrical, installation)
No special construction, electrical or installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
There would be no on-going expenses. This unit is required to replace an old power source and gel chamber that is well over 10 years old.

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment?

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
This item is crucial to the life of the discipline. It is equipment that is used repeatedly throughout the semester by the biology majors. Without this equipment the students will be ill prepared for later biology courses in their educational career.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
The quality would be greatly improved. Currently students play a guessing game as to how long the experiment might last (1.5 hrs - 2.5hrs) due to an old and weak power supply that doesn’t maintain a standard power throughout.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
Students would benefit greatly from the addition of new equipment. The equipment currently being used is over 10 years old and does not provide consistent results.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Use of this equipment would prepare students to succeed at 4-year institutions and in industry.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:
This item is crucial to the Biology 115 course in which the students are asked to do an electrophoresis at least 4 times a semester. That equates to eight labs minimum a year that rely on this piece of equipment to function properly. Many items in the biology program need to be slowly replaced and this is definitely one of those items. It is vital to the education of the students to perform an electrophoresis during their education in the Biology program.
### I. Instructional Equipment/Materials Requirements

**Priority:** To Support: Category Discipline Area  
03 1 Classes Over $200 Each Biology

**Description and part number for ordering:**  
Updated Power Lab System (total: $50,950) Updated Powerlab LabChart Systems. These are a vital part of our Physiology labs here at COM (as well as many other institutions). They are also used in student research projects in physiology, as well as in physiology units in our Majors Biology labs. They allow students to experience a variety of physiology and medical concepts first-hand.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
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</table>

**One-time expenses:** (e.g. construction, electrical, installation)  
none

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)  
none

**Item to be shared with the following Department/Program:** (Include any shared expenses)  
many classes within the L&ES dept. will be able to benefit from this equipment

**Do you have space for this equipment?**

**Justification for Item (See Rating Rubric)**

1. Indicate how important this item is to the life of your discipline.  
• ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.  
• ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.  
• ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   A - this equipment has been requested at least three times

The powerlab systems have been a vital part of our physiology lab program for over ten years. Our current systems are starting to fail, and are no longer supported. In addition, we now currently only have four systems, which severely limits our ability to serve students since we must split each lab, with half the students doing an abbreviated lab with the powerlabs and the other half doing another lab in another room, and then swapping.

These new systems will update our systems and dramatically increase our ability to serve the whole classes at once in greater depth, as well as give us the ability to perform labs in muscle physiology and electroencephalography that are currently not possible with our current equipment."
Currently our "powerlab" equipment has been sporatically working, along with one unit permanently out of order. We have contacted the vendor for replacement parts and any updates that could be used with our equipment, but the vendor has stated that because the equipment that we have is so old, there are no replacement parts being manufactured.

Allied Health is one of the very robust and growing segments of our college, and human physiology is a key class in our Allied Health offerings. These powerlabs will insure that our classes remain rigorous, relevant, and maintain a high level of quality instruction, along with benefitting our Biology majors in the new 112 series.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

no
3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

This equipment allows the student to see in real time actual physiological measurements and responses, similar to the experience in nursing and health care professions. This equipment is essential for the students to understand key physiological concepts. Every college physiology course that is taught with a lab component has some type (there are different vendors) of computerized physiology laboratory device.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

This equipment will benefit approximately 225 students per year. The older versions of this equipment is barely usable for the existing students. This newer equipment would benefit the College by attracting new students.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Students are expected to become proficient in using modern physiological equipment, and understanding the fundamental concepts behind the exercises involving this equipment. Also, the requested equipment has many more computer applications to help with student success.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

outcomes measured in lab practicals, data accumulation in process

Along with the outcomes data being compiled, it is evident from just a professor's observation that when our current "powerlab" doesn't work, the student is very weak on the understanding of the exam questions that involve that equipment and exercise.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority:</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>24 Classes</td>
<td>Over $200 Each</td>
<td>Biology</td>
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Description and part number for ordering:
Leica microscopes for General biology labs

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</table>

One-time expenses: (e.g. construction, electrical, installation)
No special construction, electrical or installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
Annual maintenance is necessary to keep instruments functioning at optimal levels.

Item to be shared with the following Department/Program: (Include any shared expenses)
This item is for Biology 110L and introductory biology course taken by many students
to fulfill their requirement of a biology lab. This item is crucial to all students that attend COM for their general education.

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   A This item has been requested 3 times now. These items would serve 24 sections of General Biology labs with a minimum of 20 students each which equals over 400 students annually. The microscopes currently in use are over 35 years old and many don't even properly function. This is a large but crucial expenditure needed to teach general biology to our students. Without microscopes our students will lack the proper education they expect from the Biology program at College of Marin.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Current equipment being used is over 35 years old and cost more in the long run to maintain and service due to old parts that are hard to come by.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   This will greatly benefit the students by easing their frustrations and anxieties of a Biology lab. Many of the 440 plus students are using this equipment while taking courses to meet their general education requirements.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
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<tbody>
<tr>
<td>05</td>
<td>96 Students</td>
<td>Over $200 Each</td>
<td>Biology</td>
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</table>

Description and part number for ordering:
GasPak Jar

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<th>Total:</th>
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<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
</tr>
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</table>

One-time expenses: (e.g. construction, electrical, installation)
No special construction, electrical or installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
These items don't require annual maintenance or staffing.

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment?
Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

B

Currently the old GasPak jars are getting brittle and starting to crack, which defeats their purpose. These are used in an array of labs in Microbiology where cultures need to be maintained in an anaerobic environment. The jars are made of a polymer that tends to get brittle and crack over time. This replacement is a necessity for the Microbiology labs to function.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>06</td>
<td>300 Students</td>
<td>Over $200 Each</td>
<td>Biology</td>
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Description and part number for ordering:
Various Models for Instruction.

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One-time expenses: (e.g. construction, electrical, installation)
No construction or electrical installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
No repairs or annual maintenance is required.

Item to be shared with the followng Department/Program: (Include any shared expenses)
Used among all biology classes

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   • These models are required for the continued education and instruction of our Anatomy students. Students continue to attend from other institutions and this would only help attract more future student to the College.
2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
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<th>Priority:</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
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<td>07</td>
<td>144 Students</td>
<td>Over $200 Each</td>
<td>Biology</td>
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Description and part number for ordering:
spectronic 20+ spectrophotometers

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One-time expenses: (e.g. construction, electrical, installation)
none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
replacement of bulbs

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a
future academic year.

b, requested 3 times

Need to replace one that is well over tens years old and no longer functions. Need the second one to keep up with the capacity of labs that are currently using this equipment. Number of course offerings are increasing, and as such the demand for equipment increases. This purchase would help better serve the labs and students.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

This purchase will help better serve the students in the labs, it will help bring our labs into the 21st century.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

144 students will be benefited by modernizing our lab offerings.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Demonstrate use of modern biological equipment.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Through lab practicals, our current equipment is broken and more than 12 years old.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>08</td>
<td>28 Classes</td>
<td>Over $200 Each</td>
<td>Biology</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

12L Digital water bath, 115V.

- **Qty.** 2
- **Unit Cost:** $1,000.00
- **Tax:** $0.00
- **Shipping:** $200.00
- **Total:** $2,200.00

**One-time expenses:** (e.g. construction, electrical, installation)

No special construction, electrical or installation is required.

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)

These items don't require annual maintenance or staffing. We currently have a few, but
require more due to the increase in demand from a number of labs.

**Item to be shared with the following Department/Program: (Include any shared expenses)**  
Items will be shared between Microbiology, Biology 110, and Biology 115.

Do you have space for this equipment?  
Yes

**Justification for Item (See Rating Rubric)**
1. Indicate how important this item is to the life of your discipline.  
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.  
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.  
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B

Due to the high demand from multiple labs being offered during the same time blocks, additional water baths are required to continue to serve our students.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)  
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

---

**I. Instructional Equipment/Materials Requirements**
<table>
<thead>
<tr>
<th>Priority:</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>96 Students</td>
<td>Over $200 Each</td>
<td>Biology</td>
</tr>
</tbody>
</table>

**Description and part number for ordering:**
Antibiotic Disk Dispensers

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>$1,000.00</td>
<td>$0.00</td>
<td>$200.00</td>
<td>$2,200.00</td>
</tr>
</tbody>
</table>

**One-time expenses:** (e.g. construction, electrical, installation)
No special construction, electrical or installation is required.

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)
These items don't require annual maintenance or staffing.

**Item to be shared with the following Department/Program:** (Include any shared expenses)

Do you have space for this equipment? Yes

**Justification for Item (See Rating Rubric)**

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B this has been requested at least two times now.

   Currently two are being used by 24 students in a lab. This is a safety issue when one has a group of students waiting to use just two pieces of equipment in the whole lab. To rectify this problem we need to purchase three more and bring the ratio of students to equipment from 12:1 down to approximately 5:1. This would make for a safer lab environment.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

   This would make for a safer lab environment and reduce our ratio of students to equipment from 12:1 to 5:1.
5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>750 Students</td>
<td>Over $200 Each</td>
<td>biology</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Hepa Filter Vacuum System (something odd with $$ below)

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
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<tbody>
<tr>
<td>1</td>
<td>$413.00</td>
<td>$35.11</td>
<td>$528.11</td>
<td>$976.22</td>
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</table>

One-time expenses: (e.g. construction, electrical, installation)
none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
none

Item to be shared with the following Department/Program: (Include any shared expenses)
Biology, Natural History, and Geology

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

System would be used to maintain and care for current collections that serve numerous students, classes and programs.
2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>180 Students</td>
<td>Under $200 Each biology</td>
<td></td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Ohaus Electronic Balances

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>$175.00</td>
<td>$0.00</td>
<td>$75.00</td>
<td>$775.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
No special construction, electrical or installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
Unit would be maintained and care for by current staff. No additional staffing or upgrades would be needed.

Item to be shared with the following Department/Program: (Include any shared expenses)
These items would be shared with Environmental landscaping

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
• ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
• ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
• ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

C

These items would be shared with the Environmental Landscaping program. A growing number of courses has forced upon us the need for additional balances. With the addition of the Soils class as well as new labs developed for Biology 116, there is a growing need for more equipment to be able to better serve the students.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>200 Students</td>
<td>Over $200 Each</td>
<td>Biology</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Orbital Shaker

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
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<td>$293.00</td>
<td>$124.00</td>
<td>$3,855.00</td>
</tr>
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</table>
One-time expenses: (e.g. construction, electrical, installation)
No special construction, electrical or installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
These items don't require annual maintenance or staffing.

Item to be shared with the following Department/Program: (Include any shared expenses)
Would be used by both Microbiology and Biology 115 (biology for majors).

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B

   This equipment would help further students education and knowledge of current laboratory procedures in the Biological science industry. Use of this equipment would allow students to perform new labs that would help update the current lesson plan.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:
I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>56 Students</td>
<td>Under $200</td>
<td>Each biology</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Museum of Life posters

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$195.00</td>
<td>$16.58</td>
<td>$42.00</td>
<td>$253.58</td>
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</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
No construction, electrical or installation expenses.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
No annual maintenance, repairs or upgrade expenses.

Item to be shared with the following Department/Program: (Include any shared expenses)
Biology classes

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B

   Posters would aide as a teaching tool for students involved in Biology 116. These posters would help students better understand concepts and ideas learned during lecture and lab.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from
this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>10 Classes</td>
<td>Over $200 Each</td>
<td>Biol/Geol</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
2 (15 passenger vans) 1 4wd Pick-up truck

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>$60,000.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$120,000.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
No special construction, electrical or installation is required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
These items would be shared between the Biology, Geology and Geography programs.

Item to be shared with the following Department/Program: (Include any shared expenses)
These items would be shared between the Biology, Geology and Geography programs.

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B

By purchasing this equipment it would reduce the current cost of field courses for students by only charging them for maintenance and gas rather than a fee for rental vehicles. This purchase would also increase safety due to familiarity with the same vehicles rather than different vehicles everytime. By
reducing the cost to students the courses with a field component would become more attractive to students.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:
Instructional Equipment
Basic Skills-English-2010

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests". Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements
Priority: To Support: Category Discipline Area
None 300 Students Over $200 Each English Skills

Description and part number for ordering:
Computer desks and chairs for 14 computer stations

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>$200.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$2,800.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
installation

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
none

Item to be shared with the following Department/Program: (Include any shared expenses)
none

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

A. Our lab computer stations are using desks and chairs that were not designed as computer station furniture, leaving students no adjustability of position and no room for papers, binders, or books on the desks. Also, we need to serve ENGL 98 students. Since we do not have the necessary space, they now go to the Writing Center. In Fall 2011, the English Skills Lab will serve the ENGL 98 students. This change represents an increase of about 175 students.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   see above
4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   see above.

The EnglishSkills Lab serves over 300 students a semester and will serve more in Fall 2011.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   see SLO's

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
   see SLO's

Additional Justification for this item:
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests".

Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>700 Students</td>
<td>Under $200 Each Credit ESL</td>
<td></td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Books for the ESL Lab lending library available to support the reading classes.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>$10.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$750.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
none

Item to be shared with the following Department/Program: (Include any shared expenses)
These adapted readers and books on tape are shared with Noncredit ESL.

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   
   There are books presently in our collection, but there is a need to update and replace the number of books available to our students. Yearly approximately 75 books must be replaced due to wear and loss, both signs of passionate readers.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   no

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   The more students read the greater their improvement is. These specially adapted books are not readily available in public libraries or book stores.
4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

The ESL lending library serves about 400 students annually. Part of the ESL reading course requirements includes reading a certain number of books from our collection, so it is required for existing students. More reading material that is adapted for ESL students results in better access to reading materials for all our students.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

As students read more, their reading speed and comprehension improve. Reading is critical to any student's academic success.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

We look at the number of books students are reading each semester. This number has been increasing. A certain amount of wear and tear occurs each year, so there is a need to replace some books.

Additional Justification for this item:
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS...(Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests". Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

## I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority:</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>70 Students</td>
<td>Over $200 Each</td>
<td>Dental Assisting</td>
</tr>
</tbody>
</table>

### Description and part number for ordering:

Ultrasonic Scaler Units

### Qty. Unit Cost: Tax: Shipping: Total:

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
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<td>$43.00</td>
<td>$15.00</td>
<td>$1,858.00</td>
</tr>
</tbody>
</table>

### One-time expenses: (e.g. construction, electrical, installation)

There are no additional installation expenses as they are stand alone units at the dental chair.

### On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

There are no staffing expenses for this item. Repair costs would be if the unit breaks down over time.

### Item to be shared with the following Department/Program: (Include any shared expenses)

These units can be shared with other departments but are germane to dentistry.

### Do you have space for this equipment?

Yes

### Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   Since the move to Indian Valley campus, the program now has 6 dental units with only 2 available ultrasonic units. We would need 4 additional ultrasonic units for the additional dental units.

   Under the current situation we would have students share and wait their turn for the 2 unit availability.

   These units are requirement equipment needed for the student to complete their training in ultrasonic scaling to earn their Certificate in Ultrasonic Scaling as part of the dental assisting program in Dental 183 in the spring semester.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
The dental program has State approval to provide instruction for the Ultrasonic Scaling Certification course. This certificated course is also in compliance with Title V under the Awards of Certificates.

Under this certification requirement, the student must have hands-on experiences on setting up the unit, removing excess cement around orthodontic bands and brackets, and be able to maintain the unit for optimum operability. These units are used by all students, both men and women who are in the program.

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

The quality of instruction will increase as the students will each have the opportunity to set up, practice, maintain and be evaluated on the process. The program would be enhanced by reducing the student wasted wait time because of lack of enough units during labs.

All students must have enough practice on the unit so that they achieve a 75% or higher pass rate on their evaluation. This also ensures that the student is a safe operator to use these units when they graduate and work in the dental setting.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

Access for students will be greatly improved with the addition of these 4 units with less down time waiting for the availability of units.

The American Dental Association recommends one ultrasonic unit for every 5 students.

Approximately 70 students would benefit from the purchase of additional ultrasonic units. This number includes both the day students enrolled in the dental assisting program and working dental assistings in the dental community who need this certificate.

There are only 3 other public institutions in Northern California that offer this certification course.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Attached is the Ultrasonic Scaling evaluation that delineates the student learning outcomes

ULTRASONIC CLINICAL EVALUATION

DATE:

START TIME
END TIME

TEETH WITH CEMENT:

AREAS TO MODIFY:

<table>
<thead>
<tr>
<th>CRITERIA</th>
<th>POINTS POSSIBLE</th>
<th>POINTS EARNED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit is properly prepared</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Twelve teeth are prepared with cement</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Operator has PPE</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Operator has correct instrument grasp</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Operator has a stable fulcrum</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Angle of the ultrasonic tip is 15° or less</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Tip is used in a constant, overlapping, paint-like stroke</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Operator identify areas to modify</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Operator does not injury the typodont</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Interproximal excess cement is removed with floss</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Excess cement is removed with a hand instrument</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Procedures is completed within 30 minutes</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Operatory is disinfected</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Instruments are properly sterilized</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Ultrasonic unit is properly disinfected</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL POINTS</strong></td>
<td><strong>75</strong></td>
<td></td>
</tr>
</tbody>
</table>

Instructor's Initials

Comments:

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Outcomes of the student evaluations are reviewed at the end of each semester. At which time, the instructor will determine if changes are needed with regards to the amount of practice time, weak areas of instruction, enough equipment and lab time, and improvements for this unit of instruction.

Additional Justification for this item:

These additional units are needed for the increase number of dental operatories during the move to IVC and were not covered by the Measure C Bond issue.
Instructional Equipment

DRAM-2010

This section will be filled out by faculty and reviewed by the Department Chair, the ARea Dean, the Instructional Equipment Committee, IPC and Budget.

Please enter items that will be used over a period of semesters BY STUDENTS..(Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests".

Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>100+ Students</td>
<td>Over $200 Each</td>
<td>Performing Arts</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Source 4 Ellipsoidal stage lighting fixtures with lamp, connector, color frame and c-clamp.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>150</td>
<td>$390.00</td>
<td>$35.10</td>
<td>$5,850.00</td>
<td>$64,385.10</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
None expected

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
Faculty and staff to set-up and install these fixtures

Item to be shared with the following Department/Program: (Include any shared expenses)
Drama, Dance, Music and outside renter.

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   B. Our courses would be greatly enhanced with this equipment. We have requested the equipment 4+ times in the past.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   Unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Instructors could teach with the latest available equipment and therefore use the latest techniques available.
Yes, students would excel in several courses with this equipment.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

We now have a limited supply of new and efficient lighting equipment, thus limiting the students hands-on experience.

Approximately 80 students annually.

Yes. Most of the graduating high school students have better, newer equipment than we. Why would students want to come here to our old stuff.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Students will be able to design and hang a lighting plot, using this equipment.

Yes

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Evaluation of skill development in utilizing techniques with this equipment.

Most high schools in the area have more up to date versions of this equipment that we do.

Additional Justification for this item:

New fixture would have lower maintenance costs; lower electrical cost, more efficient lamp (43% savings lumens/watt) and better optics; lower HVAC costs (cooler fixtures require less air conditioning; and lower storage costs, one lamp for all of the fixtures (including those in item 3), no matter what type. The new fixtures are simpler to use and maintain. New equipment would be attractive to outside groups, renters, as well.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>10+ Classes</td>
<td>Over $200 Each</td>
<td>Performing Arts</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

Replacement of old inefficient PAR lighting fixtures with new state of the art fixtures saving electrical energy (43%) and decreasing HVAC loads. Includes lamp, color frame, safety cable and c-clamp
Qty. | Unit Cost: | Tax: | Shipping: | Total:  
--- | --- | --- | --- | ---  
25 | $275.00 | $26.15 | $100.00 | $7,001.15

**One-time expenses:** (e.g. construction, electrical, installation)  
Assembly to be done by Drama Staff, but disposal of existing equipment might be $500

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)  
Ongoing Replacement lamps $20/yr

**Item to be shared with the following Department/Program:** (Include any shared expenses)  
Drama Dance and Music

**Do you have space for this equipment?**  
Yes

**Justification for Item (See Rating Rubric)**  
1. **Indicate how important this item is to the life of your discipline.**  
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.  
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.  
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.  
   b. this item has been requested 4+ times, each time denied.

2. **Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)**  
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)  
   unknown

3. **How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?**  
   Students will train with equipment they will find in their chosen field.

   Yes.

4. **How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?**  
   100+ drama students per year will either physically use this equipment or will be lit by them.

   100+

   Yes.

   Yes.

5. **What student learning or other outcomes are expected? Is it important to the achievement of student goals?**  
   Students will be able to operate this new equipment.
Yes, learning how to use the new equipment and being familiar with it will allow students greater opportunities for employment in their chosen field.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Evaluation of skill development with new equipment.

Area high school students have access to more up to date versions of this equipment which we currently have and we would like to be able to compete with at least the high schools.

Additional Justification for this item:

New fixture would have lower maintenance costs; lower electrical cost, more efficient lamp (43% savings lumens/watt) and better optics; lower HVAC costs (cooler fixtures require less air conditioning); and lower storage costs, one lamp for all of the fixtures, no matter what type. The new fixtures are simpler to use and maintain. New equipment would be attractive to outside groups, renters, as well.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
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<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>10+ Classes</td>
<td>Over $200 Each</td>
<td>Performing arts</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

Video Projector, 4000 lumens

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>$2,600.00</td>
<td>$247.00</td>
<td>$200.00</td>
<td>$5,647.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)

None expected

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

None expected

Item to be shared with the following Department/Program: (Include any shared expenses)

Drama Dance and Music

Do you have space for this equipment?

Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
b. Many of our productions use video projectors and because of lighting issues we need very bright projectors and there is a very limited supply in the A/V Department which means they are wary of loaning them out for the length of time we need to use them, generally 3-6 weeks at a time.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
Video Projection is used in a variety of productions and students familiarity with the equipment's limitations or benefits will greatly enhance their learning experience.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
Having our own stock of equipment will allow greater access for students thereby improving the students learning experience.

Perhaps 50 students could be effected by this request.

Yes.

Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able to execute video projections with this new equipment.

Yes. Greater access to this equipment would allow deeper knowledge of the tools available and better allow students more employment options.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Evaluation of skill development with new equipment. More students employed in their field of work.

A video projector is a standard piece of equipment for a theatre.

Additional Justification for this item:
Our current projector is over 5 years old and at times insufficient for our ongoing needs for multiple projectors in multiple theaters.
Description and part number for ordering:
Porcelain Dry Erase Board with wheels

<table>
<thead>
<tr>
<th>Qty</th>
<th>Unit Cost</th>
<th>Tax</th>
<th>Shipping</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>$500.00</td>
<td>$47.50</td>
<td>$100.00</td>
<td>$1,147.50</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
Drama staff to install wheels

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
markers and erasers, less than $100 per annum

Item to be shared with the following Department/Program: (Include any shared expenses)
b. Asked for 2 times, received at no time.

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   b. Asked for 2 times, received at no time.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   Possibly. Chalk dust is a known allergen.

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Better visualization of teaching concepts and other valuable information for students.
   Yes.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   Currently, only the Drama classroom has a chalk board. Portability of this board will give access to more students in various areas of the department.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   Students will be able to visualize what is being taught.
   Yes.
6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Evaluation of skill development using this equipment.

Blackboards are critical to the learning environment.

Additional Justification for this item:

Our current black(green)board is stained and chalk dust is a respiration hazard and we would like to replace it.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>100+ Students</td>
<td>Over $200 Each</td>
<td>Performing Arts</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

New dimming system, should be a Bond purchase, but will not be covered at this time

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>192</td>
<td>$500.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$96,000.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment?

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>100+ Students</td>
<td>Over $200 Each</td>
<td>Performing Arts</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
New dimming system, should be a Bond purchase, but will not be covered at this time

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>192</td>
<td>$500.00</td>
<td>$47.50</td>
<td>$0.00</td>
<td>$96,047.50</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
Instalation of new dimmers and disposal of old dimmers could be $15000

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
After the warrantee period is over perhaps $100 per year.

Item to be shared with the following Department/Program: (Include any shared expenses)
Drama, Dance, Music and other internal and external users of the theaters

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   B. We have requested this item 6+ times.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Greater dimming capacity would allow for increased teaching and learning of the use and flexibility of theatrical lighting possibilities.
   Yes.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   New dimmers would allow for an improved artistic outcome with greater flexibility and allow for multiple shows being performed concurrently.
Over 400 students perform on the Fine Arts Theater stage per year.

Yes.

Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able to test their artistic theories/techniques about lighting stage productions.

Yes

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Evaluation of skills developed with new equipment.

Area high schools have more advanced versions of this equipment as compared to our out-of-date system.

Additional Justification for this item:
The existing dimming system is more than 25 years old and no longer sufficient for a facility of this size. A new dimming system would help our students grow as designers and technicians and would be more attractive to potential outside groups (renters). A new dimming system would allow greater flexibility in lighting all of the performances in the Fine Arts Theater, once the best equipped theater in Marin County, now lagging behind most, if not all, of the public High Schools.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>06</td>
<td>10+ Classes</td>
<td>Over $200 Each</td>
<td>Performing arts</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Headsets and beltpacks for intercom, see item 7

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>$466.00</td>
<td>$44.27</td>
<td>$100.00</td>
<td>$5,736.27</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
Installation to be done by Drama Department Staff

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
None Expected

Item to be shared with the following Department/Program: (Include any shared expenses)
Drama Dance and Music

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

b. The current headsets are 22 years old and have broken parts. The current headsets are shared between the two main theaters in the building and they see, at certain points during the year, some very hard use.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Better communication between technicians working on a performance means better outcomes for those students and productions. They will be utilized for several production classes.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   Currently there are insufficient intercom devices to support programs in both theaters simultaneously.

   Approximately 25

   Yes.

   Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   Students will be able to communicate more effectively with this equipment.

   Yes.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
   Evaluation of skill development with this equipment.

Additional Justification for this item:
I. Instructional Equipment/Materials Requirements

Priority: 07  To Support: 10+ Classes  Category: Over $200 Each  Discipline Area: Performing Arts

Description and part number for ordering:
Intercom base station.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>$1,000.00</td>
<td>$95.00</td>
<td>$100.00</td>
<td>$2,195.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
Installation to be done by Drama Staff

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
none expected

Item to be shared with the following Department/Program: (Include any shared expenses)
Drama Dance and Music and other internal and external users of the theaters

Do you have space for this equipment?  Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   ● 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   ● 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   ● 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   b. The current intercom base station is 22 years old and has broken parts. This base station is shared between the two main theaters in the building and sees, at certain points during the year, some very hard use. This item has been requested 4+ times, each denied.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Students will be able to use quality equipment that won't break down in the middle of a performance.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   It would allow greater student access to the equipment and they would not have to share equipment.
25-30 students per year use this equipment.

Yes.

Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able operate an intercom system correctly.

Yes.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Evaluation of skill development with new equipment.

Current system is malfunctioning.

Additional Justification for this item:
Current equipment has broken parts

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### I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>08</td>
<td>100+ Students</td>
<td>Over $200 Each</td>
<td>Performing Arts</td>
</tr>
</tbody>
</table>

**Description and part number for ordering:**
Variable speed compact disc players

<table>
<thead>
<tr>
<th>Qty</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
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<tbody>
<tr>
<td>2</td>
<td>$450.00</td>
<td>$42.75</td>
<td>$100.00</td>
<td>$1,042.75</td>
</tr>
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</table>

**One-time expenses:** (e.g. construction, electrical, installation)
None Expected

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)
None Expected

**Item to be shared with the following Department/Program:** (Include any shared expenses)
Drama, Dance, Music and other internal and external users of the theaters.

**Do you have space for this equipment?**
Yes

**Justification for Item (See Rating Rubric)**
1. Indicate how important this item is to the life of your discipline.
   - ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   - ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
• ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

B. We have requested this item 4+ times in the past.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
These CD players are used for sound effects and music playback for performances.

Being able to adjust speeds in real time would allow students to learn new skills and accommodate many unforeseen problems encountered in performances.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
Currently this equipment isn't available in the theater. To adjust music or sound effects requires remastering CDs, which because of copyright laws is difficult at best.

Over 200 students, who will potentially perform with some musical accompaniment.

Yes.

Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able to execute sound playback with this new equipment.

Greater access would allow more students to become proficient in sound playback thereby making those students more employable in the theater world.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Evaluation of skill development with new equipment.

Most theatres in the area have equipment of this sort.

Additional Justification for this item:
Audio playback is a mainstay of many performances and absolutely vital to the Dance department. With a standard CD player one is locked into the tempo in which the music/sound.
effect was recorded. With a variable speed playback CD play one can speed up or slow down the audio if necessary, a very handy trick.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>09</td>
<td>5 Classes</td>
<td>Over $200 Each</td>
<td>Drama</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

Dress Form Mannequins

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<th>Qty.</th>
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<th>Tax:</th>
<th>Shipping:</th>
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<td>$750.00</td>
<td>$71.25</td>
<td>$400.00</td>
<td>$3,471.25</td>
</tr>
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</table>

One-time expenses: (e.g. construction, electrical, installation)

None Expected

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

None Expected

Item to be shared with the following Department/Program: (Include any shared expenses)

Drama Dance and Music

Do you have space for this equipment?

Yes. Students cannot learn without the proper tools to accomplish their tasks.

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B. Requested 4 times in the past.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   Teachers instruct students on the basics of costume fitting and tailoring on these dress forms.
   
   Yes. Students cannot learn without the proper tools to accomplish their tasks.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

   New forms would allow greater access to students wanting to learn their craft.
25 students per year would have access to these tools.

Yes.

Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able to excel with costume fitting by using this equipment.

Yes.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Evaluation of skill development with new equipment.

All costume shops have a need for mannequins to work with

**Additional Justification for this item:**
The existing dress forms probably came with the building, some 41 years ago. Some have broken parts, some no longer function as designed and all are well worn. New dress forms would allow us to give the most worn among them the proper burial they so richly deserve.

---

**I. Instructional Equipment/Materials Requirements**

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>10+ Classes</td>
<td>Over $200 Each</td>
<td>performing arts</td>
</tr>
</tbody>
</table>

**Description and part number for ordering:**
LED cyclorama lighting

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<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
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<th>Total:</th>
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<tbody>
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<td>$2,711.20</td>
<td>$300.00</td>
<td>$31,550.32</td>
</tr>
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</table>

**One-time expenses:** (e.g. construction, electrical, installation)
installation to be done by drama department staff

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)
none

**Item to be shared with the following Department/Program: (Include any shared expenses)**
Drama Dance music and theater renters

**Do you have space for this equipment?**
Yes
Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   
b. these lighting fixtures would greatly enhance our lighting capabilities.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   This equipment is state of the art and will teach our students what it is like in the outside theatrical world.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   Over one hundred students use our stage every year and this new equipment will be shared by all of the performing arts departments.

   yes, our existing equipment is hard to maintain and difficult to use as it is some forty years old.

   Yes, new students will find this equipment very exciting.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   Being trained on the latest equipment will make our students more employable.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
   When students get jobs in the theater world they will tell others where they were trained.

Additional Justification for this item:
   The existing Cyclorama Lighting equipment is some 40 years old and a huge electricity suck. The current lighting package for the cyc requires some 36,000 watts to use, the new LED fixtures will require less than 3,600. The existing fixture burn out lamps every 1,000 hours these new fixture have a 50,000 hour life expectancy. The old fixtures require glass or plastic filters for coloration. Almost all of the glass is broken and each color costs about $8,000 for replacement. The new fixtures use color mixing technology and can give some 16,000,000 colors instantaneously. The old fixtures heat up greatly and cause a greater load on the HVAC system. The new fixtures have almost no heat load at all.
Description and part number for ordering:

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
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<tr>
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<td>$0.00</td>
<td>$955.88</td>
</tr>
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</table>

One-time expenses: (e.g. construction, electrical, installation)
None

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
Less than $100 per annum for discs etc.

Item to be shared with the following Department/Program: (Include any shared expenses)
Drama Dance and Music

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   B. This camera would provide an excellent teaching tool for instructors who are describing to students how they want performance techniques changed. If the student is able to see exactly what he or she is doing that needs correction, it makes it much easier for the student to understand what changes are required and ultimately make the correction. It will also provide a visual record of performances to be archived for Music, Dance and Drama to retain as an archival record of performances.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   Unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   When an instructor is able to demonstrate to a student exactly how the technique that a student is performing requires changing or improving, it makes it much easier for student and instructor to communicate completely and with full understanding of what is required for the desired outcome.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

   This will allow all students in technique classes as well as performances to see their performance or technique exercises exactly as they present them so they will have a complete understanding of how they look, how they have interpreted directions and whether or not their performance is appropriate.
5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Students will be able to achieve greater success, by being able to see their performance. Technical Theatre students will also achieve more success by seeing settings, costumes, lighting effects, etc. during performance with actors or dancers actually appearing on the set or in the costumes under the lighting.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Evaluation of skills developed with addition of equipment use.

Most theatre schools consider a video camera to be standard equipment.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>8 Classes</td>
<td>Over $200 Each</td>
<td>Drama</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

Industrial iron

<table>
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<tr>
<th>Qty</th>
<th>Unit Cost</th>
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<th>Shipping</th>
<th>Total</th>
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<td>$50.00</td>
<td>$707.00</td>
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</table>

One-time expenses: (e.g. construction, electrical, installation)

none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

none

Item to be shared with the following Department/Program: (Include any shared expenses)

Drama Dance and Music

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   * ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   * ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   * ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   b. Requested 4 times in the past.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   unknown

3. How will the quality of instruction be improved for student learning and success? Is it
necessary for students to succeed in a series of courses?
Costuming Faculty and students are constantly ironing fabric to produce costumes for the stage and need proper equipment.

Yes.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
The home use iron currently in use is insufficient for the needs of the costume shop and they burn out constantly.

Over 100 drama students appear in costume on the stages in the Fine Arts building and most of them require ironing at some point, if not daily.

Yes.

Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able to execute proper techniques of costume maintenance.

Yes.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Evaluation of skill development with new equipment.

A dependable iron is vital to a successful costume shop.

Additional Justification for this item:
Our costume shop is without a quality iron, a basic tool in the production of costumes and properties. Currently we are using home irons which do not stand up to the rigors of constant, 8 or more hours a day, academic use.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>8 Classes</td>
<td>Over $200 Each</td>
<td>Drama</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Serger Sewing Machines

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<th>Qty.</th>
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<th>Shipping:</th>
<th>Total:</th>
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<td>$1,000.00</td>
<td>$95.00</td>
<td>$100.00</td>
<td>$2,195.00</td>
</tr>
</tbody>
</table>
One-time expenses: (e.g. construction, electrical, installation)
none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
less than $100 per year for thread

Item to be shared with the following Department/Program: (Include any shared expenses)
Drama, Dance and Music

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
• 'A' means that your discipline cannot teach your course(s) without the requested equipment.
• 'B' means that your course(s) would be greatly enhanced with the requested equipment.
• 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
B. Three or more times requested, denied just as often.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
Industrial sewing machines are the souped up version of home machines, but are more rugged and less likely to break down.

Yes

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
Students must frequently wait for maintenance by staff/faculty to perform their class assignments.

20 or more students per year use this type of equipment.

Yes

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Yes
Students will be able to master new sewing skills with this equipment.

Yes

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Evaluation of skill development with new equipment.

Costume shops must have dependable/workable sewing machines in order to function.

Additional Justification for this item:

The current sergers are several, more than 15, years old and difficult for the average student to use properly and designed for the occasional home use. Industrial sergers are designed for the constant kind of use and abuse that a busy costume shop gives them. Students going on to professional shops or other Colleges will be properly trained on this equipment.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>8 Classes</td>
<td>Over $200 Each</td>
<td>Drama</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Clothes washer and Dryer

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<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
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<tbody>
<tr>
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<td>$1,400.00</td>
<td>$133.00</td>
<td>$150.00</td>
<td>$1,683.00</td>
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</table>

One-time expenses: (e.g. construction, electrical, installation)

Installation to be performed by campus plumber. Possibly $100 in materials required.

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Soap

Item to be shared with the following Department/Program: (Include any shared expenses)

Dance

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   
b. Thrice asked for, so far no luck.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

Students must learn the proper way to construct and maintain costume. Costumes and costume making materials must be washed to maintain their appearance facilitate construction and protect student health.

Yes.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

The current washer was a donation and the current dryer is over 25 years old and a bit cranky often causing students to wait well beyond their alloted class time to finish their assignments.

100+

Yes.

Yes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Students will be able to perform proper maintenance of costumes for classes and productions.

Yes.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Evaluation of skill development with this equipment.

All costume shops need a dependable washer and dryer.

Additional Justification for this item:

A new washer and dryer would likely be more efficient in their use of water and energy.

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I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>5 Classes</td>
<td>Over $200 Each</td>
<td>Drama</td>
</tr>
</tbody>
</table>
Description and part number for ordering:
Mig Welder

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<th>Qty</th>
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<th>Shipping:</th>
<th>Total:</th>
</tr>
</thead>
<tbody>
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<td>$1,000.00</td>
<td>$95.00</td>
<td>$100.00</td>
<td>$1,195.00</td>
</tr>
</tbody>
</table>

One-time expenses: (e.g. construction, electrical, installation)
Electrical installation by district electrician, perhaps $100. in materials

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)
Training at IVC welding class and ongoing welding wire and gasses $100. per year

Item to be shared with the following Department/Program: (Include any shared expenses)
Drama Dance and Music

Do you have space for this equipment?  Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   b. Four times requested, four times denied.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
unknown

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Students could learn how welding can improve theatrical productions and repair vital equipment.

   Yes.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   Current welder is unsafe for student use and because it is a "stick" welder, it is difficult for students to learn welding techniques, causing unsafe connections.

   Approximately 100.

   Yes.

   Yes.
5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able to perform welding techniques with this new equipment.

Yes. The more skills a student has, the more employable they will be in the future.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Evaluation of skill development with new equipment.

Additional Justification for this item:
The current stick welder is on its last leg. A new welder would allow greater welding capability to the shop and allow for some maintenance of existing equipment.
Instructional Equipment

ECE-2010

This section will be filled out by faculty and reviewed by the Department Chair, the AEa Dean, the Instructional Equipment Committee, IPC and Budget.
Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests".
Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>300 Students</td>
<td>Over $200 Each</td>
<td>ECE</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Student response system from Turning Point Technologies Product ID Name XRC-R02 RF HID Receiver (Dark Gray) Price $99.00 Qty. 2 Extended Price $198.00 Product ID Name PKG-RF50 Case - 50 Price $50.00 Qty. 2 Extended Price $100.00 Product ID Name RFC-02 ResponseCard RF-02 Price $28.00 Qty. 100 Extended Price $2800.00 GRAND TOTAL: $3,098.00

SPECIAL INSTRUCTIONS: Length of Maintenance: Our Preferred Pricing Agreement provides ongoing support & maintenance. *COM ECE is eligible for preferred pricing because of MOU with SFSU. We can fall under SFSU preferred pricing structure. Potentially available to other disciplines also. Requires submission of copy of MOU between COM and SFSU.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
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<td>$0.00</td>
<td>$3,500.00</td>
</tr>
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</table>

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.
   Importance = B. This is the second request for this equipment.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

Best pedagogical practice evidence supports instructional practices that emphasize active learning. Students are actively engaged throughout the class session by using "clickers" (Student response systems) to interact with the course content.

Though not "necessary" for students to succeed, evidence suggests that active engagement of students in the learning process contributes to greater success. Not required for success in series of courses but potentially contributes to student success in all courses, including those that are prerequisites for courses in program series.

"Current research describes the benefits of active learning approaches. Clickers, or student response systems, are a technology used to promote active learning. Most research on the benefits of using clickers in the classroom has shown that students become engaged and enjoy using them" ("Clickers in the Classroom: An Active Learning Approach"; http://www.educause.edu/EDUCAUSE+Quarterly/EDUCAUSEQuarterlyMagazineVolum/ClickersintheClassroomAnActive/157458)

"Johnson described how clickers address three of Chickering and Gamson's seven principles for good practice in undergraduate education. Clickers help instructors:

~ actively engage students during the entire class period,
~ gauge their level of understanding of the material being presented, and
~ provide prompt feedback to student questions." ("Clickers in the Classroom: An Active Learning approach"; http://www.educause.edu/EDUCAUSE+Quarterly/EDUCAUSEQuarterlyMagazineVolum/ClickersintheClassroomAnActive/157458

"Students can easily respond to interactive questions with minimal instruction due to our intuitive streamlined interface ... Turning Point Technologies creates interactive classrooms that engage students and personalize the education experience with instantaneous assessments. Instructors ask questions, students respond with ResponseCards ® and class feedback is instantly displayed" (Proposal for TurningPoint ® Student Response System for Higher Education; 1/21/2010)

"Educators will immediately know if the class understands key concepts and every student participates in learning" (Proposal for TurningPoint ® Student Response System for Higher Education; 1/21/2010)

Student evaluation surveys for the last two semesters indicate that one area rate "neutral" about my instruction is in regard to the question "My instructor notices indications when students need help." The Student Response System technology would give me more opportunities to tap into students understanding and improve my ability to detect when students need help.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

All ECE students taught in smart classrooms (approximately 300 students per semester) would potentially
benefit from using this technology. Although not required, using clickers to enhance teaching methodology and active learning outcomes puts COM on par with some of the best 4 year colleges. Existing students would profit from increased engagement in COM classes and introduction to instructional technology in common use at 4 year institutions. New students can be attracted both by "game approach" that engages them and by cutting edge availability of teaching technology.

"Another benefit of clickers over traditional active learning methods is that they follow the principles of game-based learning. Students of the twenty-first century have grown up using computer games for learning and entertainment." ("Clickers in the Classroom: An Active Learning approach"; http://www.educause.edu/EDUCAUSE+Quarterly/EDUCAUSEQuarterlyMagazineVolum/ClickersintheClassroomAnActive/157458

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

Success in achieving course and program learning outcomes will be increased by more active participation of students through the use of "clickers."

COM values:

~ Student and Community Centered Education - We promote student success by providing programs and services that are learner centered and reflect the changing needs of our students and surrounding community.

~ Academic Excellence and Innovation - We are dedicated to academic excellence and encourage innovation. We foster intellectual inquiry by encouraging critical thinking, information literacy and technical competence. We continually evaluate the effectiveness of our programs.

~ Collaboration and Open Communication - We cultivate a culture of mutual respect, open communication, collaborative working relationships and participation in decision making among students, faculty, staff and the communities we serve.

All COM values will be supported by inclusion of this technology in our classes. Student goals for success in their classes will be supported by this technology that is proven to increase engagement, student perception of achievement of learning outcomes and sustain student motivation.

"Would using clickers increase learning outcomes more than another active learning approach? Two key features distinguish clicker use:

~ Clickers provide a mechanism for students to participate anonymously.

~ Clickers integrate a "game approach" that may engage students more than traditional class discussion." ("Clickers in the Classroom: An Active Learning approach"; http://www.educause.edu/EDUCAUSE+Quarterly/EDUCAUSEQuarterlyMagazineVolum/ClickersintheClassroomAnActive/157458

With TurningPoint, instructors can leverage their knowledge of PowerPoint to create an interactive question with a couple of mouse clicks versus the multiple steps required with competitive products" (Proposal for TurningPoint ® Student Response System for Higher Education; 1/21/2010)

"Perceptions of Student Learning Outcomes: Based on the survey results, student perceptions of using clickers or class discussion appear in Table 3. The seven-question perception survey, which used a scale from 1 (strongly disagree) to 5 (strongly agree), was completed by all 92 participants. Although no statistically significant differences occurred, the mean scores were consistently higher for students who had used clickers." ("Clickers in the Classroom: An Active Learning approach"; http://www.educause.edu/EDUCAUSE+Quarterly/EDUCAUSEQuarterlyMagazineVolum/ClickersintheClassroomAnActive/157458

"For students, clickers have been shown to improve attendance, comprehension and learning; reduce
attrition; provide variety and interactivity; increase the perception that the instructor cares about their success; and reduce the anxiety of in-class questions. "Using Clickers to Assess and Engage Student Learning"; Featured Higher Education Presenter: Dr. Peter M. Saunders. Magna Online Seminar, 11/4/09)

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Instructors will track the use of clickers in their instruction and end of semester student class evaluations will include student assessment of effectiveness of use of clickers in achieving the Student Learning Outcomes of the class. Retention and success data for classes before and after the introduction of clicker technology can be compared.

Evidence for effectiveness of this technology has been cited throughout this section. Resources cited are included in Program Review attachments submitted with 2009-10 Program Review.

Additional Justification for this item:

As far as I know, ECE would be the first discipline at COM to incorporate this technology. Both full time ECE instructors are committed to the use of the technology. We would be willing to share our experience and offer training to other COM faculty through flex workshops and other appropriate methods.
This section will be filled out by faculty and reviewed by the Department Chair, the ARea Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests". Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

### I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority:</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>50 Students</td>
<td>Under $200</td>
<td>Each Env. Landscaping</td>
</tr>
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**Description and part number for ordering:**

Tally register

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**One-time expenses:** (e.g. construction, electrical, installation)

N/A

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)

N/A

**Item to be shared with the following Department/Program:** (Include any shared expenses)

Biology

**Do you have space for this equipment?**

Yes

**Justification for Item (See Rating Rubric)**

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   A.

   This equipment has not been requested before

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)

   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   N/A

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   Students who take many classes in the Department must count multiple objects. Insects, plants, seeds, particles. They must have access to counters
4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

Approximately 50 students per year will benefit from this equipment. If we have well equipped laboratories and students are satisfied, more students will register for our classes.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

The SLP's of classes such as ELND160, soils and ELND120A and B, Landscape Ecology will be achieved.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

We will survey students to assess how they achieve the SLO's of the classes for which the equipment was purchased.

Additional Justification for this Item:

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
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</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>3 Classes</td>
<td>Under $200 Each</td>
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Description and part number for ordering:

Ohaus compact Portable electronic scales

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<th>Shipping:</th>
<th>Total:</th>
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One-time expenses: (e.g. construction, electrical, installation)

N/A

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

N/A

Item to be shared with the following Department/Program: (Include any shared expenses)

Biology

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   • 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   • 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

A. Classes such as soils and landscape ecology must conduct experiments which require that students weigh soils and plant parts. These scales are crucial to teach classes such as Soils and Landscape Ecology.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)

Is this equipment required to meet any local, state or federal Health and Safety Code? If so,
3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

The quality of the instruction will be greatly improved. Currently, we have very few electronic scales and students are very limited in the execution of their experiments.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

Roughly 60 students will benefit by the purchase of this equipment.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

The learning outcomes of the soils class, ELND160 and Landscape Ecology 120A and B will be achieved.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

We will assess how well the Learning Outcomes for the classes are achieved.

Additional Justification for this item:

I. Instructional Equipment/Materials Requirements

| Priority: 01 | To Support: 4 Classes | Category Over $200 Each | Discipline Area: ELND |

Description and part number for ordering:

Materials for native plant propagation.

| Qty. | Unit Cost: $7,000.00 | Tax: $700.00 | Shipping: $100.00 | Total: $7,800.00 |

One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Do you have space for this equipment?

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   - ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   - ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   - ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

A. The ELND program needs to acquire the additional supplies and materials to establish a native plant propagation facility. Landscape designers are using more native plants in their sustainable landscapes. Students graduating from our program should be familiar with native plants of the area and how to design sustainable landscapes.
2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   No

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Students will learn the proper methods for the propagation of native plants and how they can be used in sustainable landscapes.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
   This type of program will attract a large number of people from the community who want to learn how to design sustainable landscapes through the use of native plants.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   Students will be able to design sustainable landscapes using native plants. In order for new construction to achieve lead points, they will need to use native plants to help them design sustainable landscapes.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
   Enrollment in classes will increase because we will be teaching what students are looking for in terms of environmental landscape.

Additional Justification for this item:
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests". Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>02</td>
<td>all Students</td>
<td>Over $200 Each</td>
<td>Health Services</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Adult and infant manikins for teaching CPR;

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
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<tbody>
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<td>8</td>
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<td>$20.00</td>
<td>$100.00</td>
<td>$1,720.00</td>
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</table>

One-time expenses: (e.g. construction, electrical, installation)

none

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

none

Item to be shared with the following Department/Program: (Include any shared expenses)
All manikins will be shared with nursing and PE departments. They are used during flex activity as well and certifying police department

Do you have space for this equipment? Yes

Justification for Item (See Rating Rubric)
1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   Our existing manikins with the exception of one are 20 years old. They are stained, have cracks and some do not compress adequately to simulate actual compression. Two of the baby manikins are missing arms and legs

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
No.

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
Students learn and retain CPR skills through hands-on practice and simulation. Proper manikins will provide better simulation and better retention of skills.
4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

More manikins will provide more access for practice time. Approximately 100 students are certified annually through the PE, nursing and dental programs. CPR is required for nursing and dental disciplines.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

The expected outcome of CPR practice is the ability of the student to assess the need for CPR of an unconscious victim. Once certified, nursing and dental students will be able to complete their internship in a timely fashion.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

New manikins will help to certify students faster with more practice time available throughout the semester. Measurements will include # of students certified, hours to complete the course and returning students to renew certification.

Additional Justification for this item:
Instructional Equipment
Library-2010

This section will be filled out by faculty and reviewed by the Department Chair, the ARea Dean, the Instructional Equipment Committee, IPC and Budget.

Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests").

Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

I. Instructional Equipment/Materials Requirements

Priority: To Support: Category Discipline Area
01 all Classes Over $200 Each library

Description and part number for ordering:

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<thead>
<tr>
<th>Qty.</th>
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<th>Total:</th>
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<td>$0.00</td>
<td>$0.00</td>
<td>$5,000.00</td>
</tr>
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</table>

One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

installation in house

Item to be shared with the following Department/Program: (Include any shared expenses)

all

Do you have space for this equipment?  Yes

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   A. Our server is seven years old and breaks down regularly. When it is down, we can't check out books or log acquisitions, so students are denied library service.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   Yes.

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?
   Library access is essential to student learning and success.

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?
Students will be able to locate and check out library books.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:
## Instructional Equipment

### MACH-2010

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS... (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests"). Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

### I. Instructional Equipment/Materials Requirements

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>100 Students</td>
<td>Over $200 Each</td>
<td>MACH</td>
</tr>
</tbody>
</table>

#### Description and part number for ordering:

PC Computer to be dedicated to our new CNC Machining

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
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</thead>
<tbody>
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<td>$120.00</td>
<td>$50.00</td>
<td>$1,370.00</td>
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#### One-time expenses: (e.g. construction, electrical, installation)

#### On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

No

#### Item to be shared with the following Department/Program: (Include any shared expenses)

Yes

#### Do you have space for this equipment?

Yes

#### Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   PC Computer to be dedicated to our new CNC Machining.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:

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I. Instructional Equipment/Materials Requirements

<table>
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<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>100 Students</td>
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<td>MACH</td>
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Description and part number for ordering:

Printer and cart

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One-time expenses: (e.g. construction, electrical, installation)

On-going Expenses: (e.g. maintenance, repairs, staffing, and/or upgrades)

Item to be shared with the following Department/Program: (Include any shared expenses)

Yes

Do you have space for this equipment?

Justification for Item (See Rating Rubric)

1. Indicate how important this item is to the life of your discipline.
   • ‘A’ means that your discipline cannot teach your course(s) without the requested equipment.
   • ‘B’ means that your course(s) would be greatly enhanced with the requested equipment.
   • ‘C’ means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

To secure Computer and printer next to the CNC Machining.

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   NO

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Additional Justification for this item:
This section will be filled out by faculty and reviewed by the Department Chair, the ARea Dean, the Instructional Equipment Committee, IPC and Budget. Please enter items that will be used over a period of semesters BY STUDENTS. (Note: These should be NEW items that you are requesting one time only - not ongoing or consumable. Ongoing and consumable requests go under "Other Instructional Equipment". Technology-related requests should go under "Technology Requests". Select whether the item is less than or more than $200 each. If you are a large discipline with several areas, please include which area this item is for. Include Tax, Shipping and Handling in the total cost for each item.

### I. Instructional Equipment/Materials Requirements

<table>
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<td>Over $200 Each</td>
<td>Music</td>
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**Description and part number for ordering:**
Two piano benches: One Artist and one standard (pianobench.com)

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**One-time expenses:** (e.g. construction, electrical, installation)
N/A

**On-going Expenses:** (e.g. maintenance, repairs, staffing, and/or upgrades)
N/A

**Item to be shared with the following Department/Program:** (Include any shared expenses)
N/A

**Do you have space for this equipment?** Yes

**Justification for Item (See Rating Rubric)**
1. Indicate how important this item is to the life of your discipline.
   - 'A' means that your discipline cannot teach your course(s) without the requested equipment.
   - 'B' means that your course(s) would be greatly enhanced with the requested equipment.
   - 'C' means that you would like this piece of equipment for your course(s) but can wait for a future academic year.

   **Rated A**

   The benches that these replace are broken and dangerous for the students and faculty that use them. We requested these replacement benches last year as well. Besides being dangerous, they squeak, and the current artist bench is almost imposibl

2. Is this equipment required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this equipment required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   The current benches are broken and unsafe and should be replaced.

3. How will the quality of instruction be improved for student learning and success? Is it necessary for students to succeed in a series of courses?

   Improving the performances by removal of the distraction of squeaky and broken benches improve the instructional environment which exists in the classroom as well as in the concert environment. Having safe benches for use by both the students and faculty
4. How will access for students be improved? How many students (annually) will benefit from this request? Is it required to accommodate existing students? Would it be vital to attracting new students?

Access to the piano, a large part of the piano student performer's classroom/concert requirements will be improved. An adjustable bench accommodates the many variations in height and arm length of the students (and faculty) so that they can be properly po

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?

The student will be able to fulfill his/her musical performance requirements in safety and with proper position, hopefully resulting in a better performance.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Good equipment which allows the student to better fulfill classroom obligations will draw students who want to be in a safe supportive environment in classroom as well as on the concert stage.

Additional Justification for this item:

We don't want the safety of any students jeopardized and the distraction of a wobbly or noisy bench can be a major distraction in the student's work in the classroom or on stage.