<table>
<thead>
<tr>
<th>2010 Program Review: Hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto Collision Repair Technology</td>
</tr>
<tr>
<td>ART</td>
</tr>
<tr>
<td>Auto Tech</td>
</tr>
<tr>
<td>Business Information Systems</td>
</tr>
<tr>
<td>Basic Skills English</td>
</tr>
<tr>
<td>Early Childhood Education</td>
</tr>
<tr>
<td>Machine Metals Technology</td>
</tr>
<tr>
<td>Medical Assisting</td>
</tr>
<tr>
<td>Music</td>
</tr>
</tbody>
</table>
Technology Requests

Part II : Hardware for Lab and Classroom

ACRT-2010

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<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>Computer</td>
<td>ACRT</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Desk top computer

<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>1</td>
<td>$1,500.00</td>
<td>$150.00</td>
<td>$50.00</td>
<td>$1,700.00</td>
</tr>
</tbody>
</table>

Type: College-wide
Discipline- Specific
New
Open Lab
Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

We only have one computer for the ACRT lab to use. Class size is 35. We need an additional computer to help students gain access to information services on-line such as All Data.

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

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.

In addition, how many times have you requested this item, but you have not received it?
A -
Students need access to Service and Repair Information Data. We need to use the most current and up to date systems. The students need quick and reliable access to on-line data.

2. Is this hardware 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 need access to Service and Repair Information Data. We need to use the most current and up to date systems. The students need quick and reliable access to on-line data.

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 need access to on-line data continuously. At the present time we have only one computer available for student use. We need to increase access so that students can retrieve information while they are working on vehicles. Today's vehicles incorporate a variety of different types of steels, plastics and paints which require a technician to check data and repair procedure for the different types of products used.

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

Students will be able to demonstrate the use of information technology used in the Automotive Collision Repair Industry. This is the most up to date technology used.

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 information technology on manipulative and written tests.

Additional Justification for this item:
Technology Requests

Part II : Hardware for Lab and Classroom

ACRT-2010

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

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<tr>
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<td>Computer</td>
<td>ACRT</td>
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Description and part number for ordering:

Desk top computer

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<td>$1,700.00</td>
</tr>
</tbody>
</table>

Type

College-wide

Discipline-Specific

New

Open Lab

Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

We only have one computer for the ACRT lab to use. Class size is 35. We need an additional computer to help students gain access to information services on-line such as All Data.

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

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.

In addition, how many times have you requested this item, but you have not received it?

A -
Students need access to Service and Repair Information Data. We need to use the most current and up to date systems. The students need quick and reliable access to on-line data.

2. Is this hardware 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 need access to Service and Repair Information Data. We need to use the most current and up to date systems. The students need quick and reliable access to on-line data.

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 need access to on-line data continuously. At the present time we have only one computer available for student use. We need to increase access so that students can retrieve information while they are working on vehicles. Today's vehicles incorporate a variety of different types of steels, plastics and paints which require a technician to check data and repair procedure for the different types of products used.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
Students will be able to demonstrate the use of information technology used in the Automotive Collision Repair Industry. This is the most up to date technology used.

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 information technology on manipulative and written tests.

Additional Justification for this item:
# Technology Requests

## Part II : Hardware for Lab and Classroom

### ART-2010

## I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<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>3 Classes</td>
<td>Computer</td>
<td>Traditional Photography</td>
</tr>
</tbody>
</table>

### Description and part number for ordering:

- i-mac computer, *3.06GHz Intel Core 2 Duo* *8GB 1066MHz DDR3 SDRAM* - 4x2GB *500GB Serial ATA Drive *NVIDIA GeForce 9400M*

<table>
<thead>
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</table>

### Type

- College-wide: None
- Discipline-Specific: None

### If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

This would replace one of the ancient donated Macs (2004) in the small Digital darkroom located in Photography, to provide functional use of the new digital negative scanner. This also provides a transitional opportunity to introduce students to digital Photography. (Those courses are in the new Art building.)

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

### 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.

   In addition, how many times have you requested this item, but you have not received it?
   - B
   - 2 times prior

2. **Is this hardware 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?**
   - This will allow students to scan in their negatives to get the best possible digital file. We have received the scanner but the existing donated (2004)2 computers don't function anymore.
   - This will attract students as we attempt to stay current with the computers provided in the small Digital Darkroom (located in the Photography Lab).

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?
Student will be using the same equipment which they will be using or needing to create Art work and work for others in the Arts Industry.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
Increasing enrollment in Photography courses—students are attracted in part by the new equipment in the lab.

Additional Justification for this item:
We have to keep this small digital darkroom lab (located in the Photography Lab) up and running to continue to attract students and stay current.

I. Technology Requests—Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<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>3-4 Classes</td>
<td>Computer</td>
<td>Traditional Photography</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
15" laptop for new digital (slide) projector * 2.66GHz Intel Core 2 Duo * 4GB 1066MHz DDR3 SDRAM - 2x2GB * 320GB Serial ATA Drive @ 7200 rpm * SuperDrive 8x (DVD±R/±RW/CD-RW) * MacBook Pro 15-inch Glossy Widescreen Display# 2.66GHz Intel Core 2 Duo # 4GB 1066MHz DDR3 SDRAM - 2x2GB # 320GB Serial ATA Drive @ 7200 rpm/remote

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<tr>
<th>Qty.</th>
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<th>Total:</th>
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</table>

Type College-wide Discipline-Specific
New None Classroom use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
This will be needed in conjunction with the previously requested/received digital projector and take advantage of ARTSTORE slide archive which the Art department now has access to. We will be able to show a wide variety of slides—both historical and contemporary images.

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

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.
In addition, how many times have you requested this item, but you have not received it?
B
2. Is this hardware 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?
Students in all sections of Photography are shown a variety of photographic images. This laptop is needed in conjunction with the digital projector to show digital slides from the new access to ARTSTORE image library.

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?
Absolutely vital to attracting new students. All the Photography students-100 yearly will benefit. They will be exposed to a much broader range of images.

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

<!-[if !supportLists]-->•
<!-[endiff]-->Discuss the works of other photographers using a structure or criteria.

<!-[if !supportLists]-->•
<!-[endiff]-->Communicate and apply an increased awareness of different qualities of natural light and ways to use light to your conceptual advantage.

<!-[if !supportLists]-->•
<!-[endiff]-->Control film developing to create expansion of the range of tonality.

<!-[if !supportLists]-->•
<!-[endiff]-->Demonstrate an understanding of various concepts including, for example, the use of large-scale grid using a group of photographic images.
Select artists which have a strong personal impact and which can be used to inspire and instruct other students in their own artistic development.

Classify photographic (Fine Art) resources available within the Bay Area as well as national and international circles.

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

Additional Justification for this item:
This is so essential to upgrading the facilities for Photography students. Photography is a major area of culture and student popularity.

I. Technology Requests-Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

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<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>03</td>
<td>2-4 Classes</td>
<td>None</td>
<td>Art/Photography/Digital</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Full spectrum lights/fixtures / 1-2x2 ft $174.00 ultralux fixture w/bulbs 1-2x4 ft $274.00

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
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<th>Total:</th>
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<td>$25.00</td>
<td>$625.00</td>
</tr>
</tbody>
</table>

Type          College-wide        Discipline-Specific
New            None               Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
This would be placed one in Photography-Fusselman Hall and one in Digital Arts Lab.

Item to be shared with the following Department/Program: (Include any shared expenses)
Art/Multimedia/music and Architecture

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.
In addition, how many times have you requested this item, but you have not received it?
B These are neutral lights that provide a viewing area of color prints without color cast from the classroom lighting. To print correctly one has to be able to evaluate color two times prior.

2. Is this hardware 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?
   It is the proper training for an art student (especially printing) to learn to evaluate color and b/w under neutral lighting.

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 provide a cutting edge facility able to compete with other schools.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   Learning to evaluate color and control it as an (output) print.

6. How will these outcomes be measured for future planning? What data or evidence supports your request?
   Success of the students to meet the course goals.

Additional Justification for this item:
This is an essential tool that we have needed for many years. It is a basic industry standard tool used in universities, and the art world.

I. Technology Requests-Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<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>100 Students</td>
<td>Printer</td>
<td>Digital Photography</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
EPSON Stylus Photo 1400 C11C655001 Up to 15 ppm InkJet Photo Color Printer - Retail

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<table>
<thead>
<tr>
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<table>
<thead>
<tr>
<th>Type</th>
<th>College-wide</th>
<th>Discipline-Specific</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
We don't have a proofing printer in the digital arts lab.

Item to be shared with the following Department/Program: (Include any shared expenses)
Art, multimedia, music, architecture, film

**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.

   In addition, how many times have you requested this item, but you have not received it?
   
   A   2-times prior
   
   **we need this printer to provide proof-prints for Art 196, art 193, 194.**

2. Is this hardware 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?
   
   Absolutely—it is a tool for proofing work before going to final print.

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?

   100-400 students The digital Arts lab is shared between four areas.

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

   Reflect a more individual style and greater sophistication of the final image.

   Practice and incorporate a continued awareness of different qualities light.

   Observe the works of other photographers using resources such as the Internet and periodicals.
Edit larger groups of images.

Use of larger and different output media.

Calibrate personal computer monitor.

<!--[endif]-->Choose images to re-interpret and modify.

<!--[endif]-->Evaluate and implement appropriate software adjustments.

<!--[if !supportLists]-->
○
<!--[endif]-->Choose images to re-interpret and modify.

<!--[if !supportLists]-->
○
<!--[endif]-->Evaluate and implement appropriate software adjustments.
Incorporate a plan to output certain images for web; print or digital slide collections and presentations.

Assess, critique and evaluate classmate’s projects verbally in class by comparing and contrasting concepts and skills applied.

Select, defend and interpret an online digital collection through a written evaluation.

Incorporate a plan to output certain images for web; print or digital slide collections and presentations.

Assess, critique and evaluate classmate’s projects verbally in class by comparing and contrasting concepts and skills applied.

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

Student success.

Additional Justification for this item:

I am requesting two printers. One for Traditional Photography to transition and integrate digital imaging. The other would be located in the New Art building/Digital Arts Lab for use with four areas of study.

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

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<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>05</td>
<td>2-3 Classes</td>
<td>Other</td>
<td>Digital Photography</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

Eye-One DisplayLT Color Management monitor calibration System accurately profiled monitor with unrivaled controls for precise color
If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

This is an essential tool to teach students how to calibrate their monitors. Industry standard tool.

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

Art, Music, Architecture, Multi-Media, film.

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.

In addition, how many times have you requested this item, but you have not received it?

B
3 times prior

2. Is this hardware 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?

   This is an essential elementary tool for digital imaging students to balance the color on their monitor.

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?

   Lab is shared with 4 subjects so all the classes could learn how to use it.
   I have 1-2 courses each with 23 students. 50-200. This would attract students as we get closer to offering skills using professional tools.

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

   It offers quick, user-friendly, accurate monitor calibration for digital imaging.

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

   I can see if the color is balanced in their final prints.

Additional Justification for this item:

   Students will be attracted to a complete digital imaging lab with the correct tools which will teach Art students to work in the industry.
**Technology Requests**

**Part II : Hardware for Lab and Classroom**

Auto-2010

---

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<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>01</td>
<td>22 Classes</td>
<td>Other</td>
<td>AUTO</td>
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**Description and part number for ordering:**

College of Marin Base Unit OptiPlex 960

<table>
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**Type**

College-wide

**Discipline-Specific**

Open Lab

Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

Both computers to be replaced are at least 15 years old. They are used everyday by students all day long.

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

none

**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.

In addition, how many times have you requested this item, but you have not received it?

"A"

These computers were 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 hardware 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 need access to Service and Repair Information Data. We use the two systems that are most used by industry. The student need quick reliable internet access to

---

use these internet base systems.

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. Students need to be knowledgeable in use of these systems to be able to perform service and repair tasks to gain the skills necessary for employment.

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:

These computers were 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 al

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### I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<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>Other</td>
<td>AUTO</td>
</tr>
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</table>

**Description and part number for ordering:**

College of Marin Base Laptop

<table>
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</table>

**Type**

New

**Discipline-Specific**

College-wide

Open Lab

Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

Additional not replacing any existing laptop

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

**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.

In addition, how many times have you requested this item, but you have not received it?
This laptop 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. Without learning this new technology our graduates will not be prepared for the job.

2. Is this hardware 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 have seven "Diagnostic Tool Carts" each cart contains a laptop, scan tool, digital storage oscilloscope, digital multimeter, power probe, and infrared gas analyzer. This enables student to have all the tools needed to learn diagnostic skills. The lab has eight bays this laptop will help to complete the last cart.

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 seven "Diagnostic Tool Carts" each cart contains a laptop, scan tool, digital storage oscilloscope, digital multimeter, power probe, and infrared gas analyzer. This enables student to have all the tools needed to learn diagnostic skills. The lab has eight bays this laptop will help to complete the last cart. By providing this eighth cart the number of students using each cart will be reduced so each student will have more access to use the tools needed for diagnosis.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   Students are required to show competence in the use of equipment both on manipulative and written tests.

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 laptop 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 allocat
Technology Requests

Part II : Hardware for Lab and Classroom

Business-and-Information-System-2010

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
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<tr>
<th>Priority</th>
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<th>Category</th>
<th>Discipline Area</th>
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<tbody>
<tr>
<td>01</td>
<td>1000 Students</td>
<td>Computer</td>
<td>CIS, BUS, BOS</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

Dell 64-bit I5 processor computers, with 4-gig memory, moderate hard drive, 20-inch monitors, keyboards and mouse.

<table>
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Type College-wide Discipline-Specific

Replace Open Lab Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

There are currently ten 32-bit workstations in the LC 35 BIS Computer Lab that are four years old and incapable of running 64-bit application software (Office 2010). These older machines, when replaced will be recycled to the IVC OL 123 Computer lab, which currently has machines that are more than 5 years old and in bad or limited shape.

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

The LC 35 BIS Computer lab is used to satisfy the TBA hours assigned students who are enrolled in CIS, BUS and BOS classes. This is an open lab (not used for in place teaching) that is staff up to 6 days a week and generally from 8 am to 10 pm.

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.
   In addition, how many times have you requested this item, but you have not received it?

   A. This new equipment is required to run 64-bit Windows 7 operating system and Microsoft Office 2010 application software. The curriculum will change to this new level of Microsoft Office Application software in Fall 2011.

2. Is this hardware 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, the need for this equipment is driven by the need to adjust cirriculum to accommodate the introduction of the new software and hardware into the business world.

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?

   All CIS and BOS, and some BUS courses include TBA laboratory hours as part of the course requirements. In many cases the TBA hours amonpunt to 1/3 of the Student Units awarded. The work done
in TBA labs generally involve tutorial and other assigned exercises that must be done on computers running particular software. Without the proper equipment, the required software cannot be run.

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?**

On an annual basis, approximately one thousand students will have access to and require use of these machines. Having the ability to continue to offer courses teaching the latest application software does attract new students as well as provide the existing students with up-to-date marketable business computer skills.

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

Mastery to the level being taught of the application software being taught is the ultimate student learning outcome for the laboratory part of these classes. In fact, for most of the CIS and BOS classes, such mastery is the single most important goal for those taking the course.

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

The rates at which students successfully complete one in a series of courses, and then enroll in the subsequent one is a strong measure of successful outcomes. When such evidence is available, the number of follow up courses and the frequency of their being offered can be planned.

**Additional Justification for this item:**

The Business and Information Systems department has been involved in the establishment, maintenance and upgrading of student computer labs for more than 30 years. It has been able to offer o
# Technology Requests

## Part II : Hardware for Lab and Classroom

### Basic Skills-English-2010

### I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
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<th>Priority</th>
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<tr>
<td>01</td>
<td>300 Students</td>
<td>Monitor</td>
<td>English Skills</td>
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**Description and part number for ordering:**

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<tbody>
<tr>
<td>New</td>
<td>Open Lab</td>
<td>Lab use</td>
</tr>
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</table>

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

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

**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.

   In addition, how many times have you requested this item, but you have not received it?

   See justification under request for computers.

   This request was made in 2008 and 2009. We have never received any reply to this request.

2. **Is this hardware 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 answer to previous request for computers

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 SLO's

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:

I. Technology Requests-Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area
Dean, the Technology Committee, IPC and Budget.

<table>
<thead>
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<th>Priority</th>
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<th>Category</th>
<th>Discipline Area</th>
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<tr>
<td>01</td>
<td>300 Students</td>
<td>Computer</td>
<td>English Skills</td>
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Description and part number for ordering:

Computers

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Type  Discipline-
New       Specific-
College-wide Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms
of age and capability or lack thereof:

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

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.
In addition, how many times have you requested this item, but you have not received it?
Six to seven sections of Eng 98 have been added to the discipline. All students in
ENGL 98 are required to attend lab. In order to accommodate 200 more students in our
lab, the number of computers available must be increased. Presently, these students
fulfill their lab requirement in the WRiting Center because the English Skills Lab
cannot accommodate them.

2. Is this hardware 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?
All the students who currently attend the Eng Skills lab plus the 200 students who
should be attending our lab.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   See SLO's for ENGL 98.

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:
Technology Requests
Part II : Hardware for Lab and Classroom

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

Priority: To Support: Category Discipline Area
01 300 Students Other ECE

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.

Qty. Unit Cost: Tax: Shipping: Total:
1 $3,500.00 $0.00 $0.00 $3,500.00

Type College-wide Discipline-
Specific
New None Classroom use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

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

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.
In addition, how many times have you requested this item, but you have not received it?
Justification = B. This is the second request for this technology.

2. Is this hardware 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?

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](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](http://www.educause.edu/EDUCAUSE+Quarterly/EDUCAUSEQuarterlyMagazineVolum/ClickersInTheClassroomAnActive/157458))

"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](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
Technology Requests
Part II : Hardware for Lab and Classroom
MACH-2010

I. Technology Requests-Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
<thead>
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<th>Priority</th>
<th>To Support:</th>
<th>Category</th>
<th>Discipline Area</th>
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<tbody>
<tr>
<td>01</td>
<td>100 Students</td>
<td>Computer</td>
<td>MACH</td>
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Description and part number for ordering:
Desk top computer

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Type College-wide Discipline-Specific
None None

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
We need a computer to help students gain access to information services on-line.

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

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.
In addition, how many times have you requested this item, but you have not received it?
A

Students need access to Service and Repair Information Data. We need to use the most current and up to date systems. The students need quick and reliable access to on-line data.

2. Is this hardware 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. Technology Requests-Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
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<th>Category</th>
<th>Discipline Area</th>
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<tr>
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<td>0 Students</td>
<td>Computer</td>
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Description and part number for ordering:

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Type College-wide
Discipline-Specific
New
Open Lab
Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

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

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.
   In addition, how many times have you requested this item, but you have not received it?
   B. This has been requested 5 times

2. Is this hardware 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 is required for students to access and review class projects including shop blueprints, industry standards and safety regulations, equipment and industry updates.

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?
   Student access will improve by having professional and peer review of ongoing projects and assignments. 80 students will benefit from this request. It is required to accommodate existing students who bring in CAD drawings for their class projects. This will attract new students.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   This is important for SLO's in preparation for entering and succeeding in the welding industry.
6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Outcomes will be measured by the success of students passing welding certification tests and entry into the industry. CAD is becoming more and more relevant in welding design and production. This request reflects the changes in the welding profession.

Additional Justification for this item:
Technology Requests
Part II: Hardware for Lab and Classroom
MEDA-2010

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

Priority: To Support: Category Discipline Area
01 50 Students Monitor MEDA

Description and part number for ordering:
Large monitor for lab class

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

Type College-wide Discipline-Specific
Replace None Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
New monitor for computer that is needed.

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

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.
   In addition, how many times have you requested this item, but you have not received it?
   See justification with computer that is requested.

2. Is this hardware 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)
   See lab computer request.

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 lab computer request.

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 lab computer request.

5. What student learning or other outcomes are expected? Is it important to the achievement of student goals?
   See lab computer request.
6. How will these outcomes be measured for future planning? What data or evidence supports your request?

Refer to lab computer request.

Additional Justification for this item:

Refer to lab computer request.

I. Technology Requests-Hardware for Lab and Classroom or other student use

This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<table>
<thead>
<tr>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
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<tbody>
<tr>
<td>01</td>
<td>50 Students</td>
<td>Computer</td>
<td>MEDA</td>
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Description and part number for ordering:

computer for MEDA student lab.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
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Type College-wide Discipline-Specific

Replace None Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:

the computer in the MEDA lab is old and cannot support the new software from textbooks and electronic medical record. Students must learn to use computers in both the front and back office since all areas are or have moved to electronic medical records.

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

this computer is for the MEDA lab.

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.

   In addition, how many times have you requested this item, but you have not received it?
   MEDA cannot teach the front office or back office classes without an up to date computer.

   2. Is this hardware 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)

   Electronic communication is an expectation of the workplace in clinics and doctor's offices.

   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 practice working with patient records, documenting their work, looking up labs and scheduling patients. They cannot apply skills without this technology.
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 MEDA students use this one lab for their lab classes. Students will not enroll in our program unless we teach current state of the art office skills.

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

Students must learn to communicate electronically in order to function in the medical office.

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

Employers evaluate our students in the externship course.

Additional Justification for this item:
Technology Requests
Part II : Hardware for Lab and Classroom
Music-2010

I. Technology Requests-Hardware for Lab and Classroom or other student use
This section will be filled out by faculty and reviewed by the Department Chair, the Area Dean, the Technology Committee, IPC and Budget.

<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>400 Students</td>
<td>Other</td>
<td>Music/Multimedia/Film</td>
</tr>
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</table>

Description and part number for ordering:
20 pairs AKG K240m headphones: 11 for FA225, 9 for Music Department

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
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Type
College-wide
Discipline-Specific
Upgrade
Lab use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
Existing headphones are seven years or older. Many have become broken and not fixable.

Item to be shared with the following Department/Program: (Include any shared expenses)
FA225 shared with Film and Multimedia Studies
FA179 Music only

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.
In addition, how many times have you requested this item, but you have not received it?
A.

Headphones need to be replaced every few years due to wear and tear and we do not have enough for each computer in FA225. This request also replaces some Music Department headphones. None

2. Is this hardware 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?