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.

Importance:
• '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?

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<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>500 Students</td>
<td>Other</td>
<td>ACRT - EV</td>
</tr>
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</table>

Description and part number for ordering:
Parts of Restoring 1976 CitiCar to Stock 1- 55 gallon of Safest Rust Remover @ $960 8- 6 volt deep cycle batteries @ $225 each 4 - sets of aircraft brake parts (Bendix and others) @ $200 each

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Type
College-wide
Open Lab

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)
Electronics

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

no
2. 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 parts are required to restore the 1976 Citi Car to stock. These Citic Cars were a reaction to the gas crisis of the 1970's. They are one of the first mass produced 100% electric cars. 2000-3000 car wer produced. Students will learn the basic practical design steps of designing and producing an electric car. These cars have batteries divided into different banks and at different speeds the contactors combine different batteries together to drive the motor.

3. 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 gain the practical knowledge of how basic electrical cars are built. Students will be able to apply these basic principles to the electrics and hybrid of today. We are teaching hybrid technology in all of our ACRT Classes. It is expected that 65% of all cars manufactured by 2016 will incorporate hybrid technology or 100% electrics. Having these different systems available will attract new students to the programs.

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

Students outcomes cannot be met without these items. Students must understand the basics of the electric cars. Restoring this vehicle will allow us to use it as a teaching tool for the rest of the classes. It will provide, in the most simple terms, the basics of all the electric and hybrid designs.

5. 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.

Importance:
• '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?

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<th>Category</th>
<th>Discipline Area</th>
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<tr>
<td>A</td>
<td>01</td>
<td>500 Students</td>
<td>Other</td>
<td>ACRT - EV</td>
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</table>
Description and part number for ordering:
Elite Power System Lithium Battery system consisting of: 12-GBS-LFM P100A battery @$620 each 44-BL-40 Balancers @$8.95 each 1-TSL12-15 Charger @$90 each 11-EMS-$SB sense board@$66 each

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<td>New</td>
<td>Open Lab</td>
<td>Lab use</td>
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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)
Electronics

Justification for Item (See Rating Rubric)

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

2. 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 batteries are required to complete the Miata conversion. This is the third part of our EV/Hybrid build. Step one was the solar golf cart with "standard" batteries. Step two was the VW Thing with GEL batteries. Step three is the Miata with Lithium batteries. Students must understand each of these technologies to be successful in the future in this industry.

3. 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 are teaching hybrid technology in all of our ACRT Classes. It is expected that 65% of all cars manufactured by 2016 will incorporate hybrid technology or 100% electrics. Telsa brought the first lithium powered vehicle to the market place. Toyota is expected to have a lithium powered car available for mass purchase by 2015. Students must be exposed to these systems. Having these different systems available will attract new students to the programs.

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

Students outcomes cannot be met without these items. Students must understand these different systems. Students that wish to be involved with emerging technology designs must be able to test and be aware of the safety aspects of lithium batteries. After collisions it will be more and more important to not only check the structural damage but also check the proper operation and shut down of the different battery systems.

5. 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.

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

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Description and part number for ordering:
Desk top Computer

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Type
New
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:

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

no

2. 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.

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

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

5. 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.

Importance:
• '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?
Importance: A  Priority: 01  To Support Annually: 500 Students  Category: Other  Discipline Area: ACRT

Description and part number for ordering:
Scan tool for Toyota Prius

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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)
no

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
no

2. 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?
In order for students to read the level of charge on batteries in a Toyota Prius, it is necessary to have the scan tool to retrieve the information. There are several different scan tools on the market but the Toyota scan tool is the most widely used. Technicians should become accustomed to the proper use and safety of this equipment. At the present time, we do not have the capability of reading battery voltage. We will not be able to teach properly without this tool.

3. 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 are now teaching hybrid technology in all of our ACRT classes. This tool is important for students to learn how to test hybrid battery voltage. It is expected by the year 2016, 65% of all cars manufactured will incorporate hybrid technology. Having the ability to teach this new technology will attract new students.
4. What student learning or other outcomes are expected? Is it important to the achievement of student goals? How will these outcomes be measured for future planning? What data or evidence supports your request?

Students will become familiar with the safety and testing of hybrid battery packs. After a car is involved in a collision, not only is it important to check the body for structural damage, but it is important to check the battery for proper operation to determine if it were damaged.

5. Additional Justification for this item:

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

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<th>Category</th>
<th>Discipline Area</th>
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<tr>
<td>A</td>
<td>01</td>
<td>Annually:</td>
<td>Computer</td>
<td>ACRT</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 Students</td>
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Description and part number for ordering:
Lap top Computer

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Type
New

Discipline
College-wide
Open Lab

Specific
Classroom use

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
Replacement of 10 year old lap top.

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

No
Justification for Item (See Rating Rubric)

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

   NO

2. 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.

3. 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 procedures for the different types of products used.

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

   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.

5. Additional Justification for this item:
I. Technology Requests—Hardware for Lab and Classroom or other student use

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

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<td>Computer</td>
<td>Photography/traditional</td>
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Description and part number for ordering:
15" apple powerbook 2.2 GHz 4 GB 1333 MHz 500 GB 5400-rpm (intel core i7)

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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:

I have been bring my own laptop to class which is heavy and adding wear and tear to the machine. We need a laptop to use in the lecture classroom to show slides. I have compiled all new digital slides, I have a digital projector. Now I need the laptop to complete the set up.

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

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
2. Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
2. 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 speaks for itself when your photography instructor is using a digital setup rather than a carrosel to show slides. (Although students did find it amusing.) Students learn by seeing visual examples of other photographer's work. It is a visual studio class.

3. 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 traditional classes will benefit during lecture. six levels.

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

SLO'S
Art 190
- Differentiate between the styles and personal ethics, which attract you as a Photographer.

ART 191
- Discuss the works of other photographers using a structure or criteria.
- Communicate and apply an increased awareness of different qualities of natural light and ways to use light to your conceptual advantage.
- Demonstrate an understanding of various concepts including, for example, the use of large-scale grid using a group 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.

ART 192
- Inform a developed sense of creative openness in relation to possibility on every level.
- Demonstrate an understanding of various concepts including, for example, the use of symbolism in photographic images.
- Demonstrate the development of compositional skills.
- Integrate basic composition skills including 2-d design.
- Practice an increased awareness of different qualities of light.
- Understand the historical context of major works.
- Select artists which have a strong personal impact and which can be used to inspire and instruct other students in their own artistic development.
- Professional presentation skills.
- Create photography projects relevant to the topics outlined within the context of the discipline.
5. Additional Justification for this item:

This is a small expense to bring a visual art such as photography up to date in presentation.

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

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Importance:
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Description and part number for ordering:

i Mac 21" quadcore processor 2.5 GHz

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Type: College-wide

Discipline-Specific: Open Lab

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

We have a digital darkroom in Fusslemann hall to act as a bridge to show photographers what can be done digitally. They can scan their negatives and alter them in the computer. We currently have 2 computers from 2000 in our lab.

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

Justification for Item (See Rating Rubric)

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

2. Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
2. 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 important tie in with the digital aspects of photography. Artists use traditional film based photography unlike commercial photographers. They still need to be aware of the continuity of using both tools.

3. 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 six classes can rotate through the small lab throughout the semester.

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

193_194

Demonstrate an understanding of Intermediate properties specific to digital photography such as use of “Raw” files, color management and workflow development.

Demonstrate the continued development of compositional skills.

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.

Examination and implementation of basic properties specific to Digital Photography

Demonstrate the integration of compositional skills.

Practice an awareness of different qualities of available light throughout the day.

Employ the options and techniques necessary for developing a basic workflow.

Create photography projects relevant to the topics outlined within the context of the discipline.

5. Additional Justification for this item:

I have been working for years to make my program review a realistic goal. Little by little we are awarded much needed tools for a neglected discipline which is NOT included in the new Fine Arts building. Please support my hard work in program review yearly.
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.

**Importance:**
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<th>Discipline Area</th>
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<td>6 Classes</td>
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<td>Photography</td>
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**Description and part number for ordering:**
Epson 1400 printer from APPLe (Education discount not included)

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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:

Printer for Digital Darkroom in Fussleman Hall. Allows students to be introduced to digital Photography/Prints while located in the same building as their traditional photography classes.

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

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

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

2. 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?
3. 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 six classes can rotate thru this lab during traditionalm Photography class time. This is vital to attracting more students both in traditional photography as well as introducing students to Digital Photography and Digital printing.

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

5. Additional Justification for this item:
Technology Requests

Part II : Hardware for Lab and Classroom

Business-and-Information-System-2011

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.

Importance:
• ‘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?

<table>
<thead>
<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support Annually:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>600 Students</td>
<td>Computer</td>
<td>BIS/BOS/BUS</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Replace existing Laserprinter in LC 35 with HP LaserJet 5200dtn Printer.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
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<tr>
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<td>$2,500.00</td>
<td>$212.50</td>
<td>$50.00</td>
<td>$2,762.50</td>
</tr>
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</table>

Type
Replace

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:

The existing HP 8150 Laser printer in the LC 35 lab is more than ten years old and not compatible with Windows 7. Costly periodic maintenance and repair has been required a number of times in the past three years.

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

The LC 35 BIS computer lab is an open lab (never exclusively used by a single class) which is used by CIS, BUS and BOS students.

Justification for Item (See Rating Rubric)

1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
2. Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
The equipment is required to keep the CIS, BOS and BUS courses viable for printing necessary laboratory and homework assignments.

2. 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 equipment is essential for the success of students in the CIS, BOS and BUS disciplines that are training for entry level jobs or improving their business computer skills to hold the jobs they currently have.

3. 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 600 students are enrolled in courses each year that will use this lab. Since the LC 35 lab is an 'open lab' and not scheduled to be exclusively occupied by any one class, student access is the highest level on the campus. Five days a week it is available to student use from 8 a.m. until 10 p.m. and from 9 a.m. until 2 p.m. on Saturdays. One mainstay of the computer lab is the ability to produce quality black and white hardcopy listings and is essential to attract and retain students through the program.

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

All student learning outcomes associated with the manipulation of data and production of reports and presentations using the MS Office application software are effected by the ability to quickly produce high quality listings. The consistent class enrollments and completion rates are a good measure of how well the equipment is being utilized to meet student needs.

Ultimately the number of certificates awarded in each of the application areas measures the success of the program.
5. Additional Justification for this item:

BIS has maintained student computer labs for over 30 years. Equipment is the foundation for BIS courses. Providing reliable high quality speedy printing is essential for program success. Replaced printer can be recycled to a less demanding lab.
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.

Importance:
• ‘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?

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<thead>
<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support Annually:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>4000 Students</td>
<td>Other</td>
<td>Chem, Phys, Geol, Geog, Engg, Bio</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Approximately 50 new computers will be needed for the new and old science center labs. The current computers in the science center are in high demand (more than 4000 students from classes and walk-ins) and are woefully out of date. The cost and further justification will be coming from the computer science tech and other departments. We just wanted to voice our support and stress the need for these new computers.

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

<table>
<thead>
<tr>
<th>College-wide</th>
<th>Discipline-Specific</th>
</tr>
</thead>
<tbody>
<tr>
<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:

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

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
2. Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
2. 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?

3. 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?

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

5. 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.

Importance:
• '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.
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<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
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<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>80 Students</td>
<td>Computer</td>
<td>comp sci</td>
</tr>
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</table>

Description and part number for ordering:
Computers for SC 101 and SC 133.

<table>
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<th>Qty.</th>
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<th>Tax:</th>
<th>Shipping:</th>
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<td>$0.00</td>
<td>$2,200.00</td>
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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:

A number of courses are taught in both SC 101 and SC 133. Both have ridiculously old computers. Specifically for Computer Science a new computer with capabilities for running cutting edge software/programming routines in needed.

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

Life and Earth and Math also use computers in these classrooms.

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
We recently revised the computer science discipline bringing the educational material into the 21st century. We however do not have a smart classroom in the Science Center that can accommodate the more advanced needs for our programming courses. Recently there has been some talk of replacement of the computer in SC 133 after multiple requests by faculty, myself (department chair) and the dean. Hopefully this request will be moot because a new computer is already in the room.

2. 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?

3. 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?

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

5. 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.

Importance:
• '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.
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<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
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<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>68 Classes</td>
<td>Other</td>
<td>Court Reporting</td>
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</tbody>
</table>

Description and part number for ordering:
Stenograph Corporation "Wave" Computerized Paperless Student Writer Item # 45006 Listed price, tax and handling reflects per unit cost Budget Acct. No.: 11100 23201 64000 051430

<table>
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</table>

Type          | Discipline-Specific |
Replace       | Open Lab           |

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

While we have recently acquired 5 adequate modern writers (Proteges), we still have a number of obsolete writers that should be replaced. The older writers are difficult and expensive to maintain/repair, and are not compatible with the current court reporting software.

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

N/A

Justification for Item (See Rating Rubric)

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

This equipment is not required to meet Title 5 and/or Ed Code; however this equipment is required to maintain recognition by the Court Reporters Board of California under:

California Code of Regulations Title 16.
Professional And Vocational Regulations
Division 24. Certified Shorthand Reporters Board
Article 2. Court Reporting Schools
Section 2411. Criteria for Recognition of Court Reporting Schools.

2. 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?

Use of modern, computerized stenograph writers in the labs and classrooms allows students to acquire professional-level skills and computer literacy more quickly and fluently than does use of older, obsolete equipment. Students are thus better equipped to enter the workforce. The advanced keyboard used on the Wave has been shown to enhance and accelerate students' mastery of machine shorthand due to the lightness and sensitivity of the "touch."

3. 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?

Economically disadvantaged students have no access to required equipment and cannot complete program requirements if computerized stenotype machines are not provided by the program. All court reporting classes will benefit from this request. New and prospective court reporting students are interested in attending programs that are providing instruction in and access to current technology.

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

The Court Reporters Board of California now requires recognized schools to provide a minimum of 60 hours of instruction in court reporting related technology, an increase of 35 hours over prior requirements. This equipment will enable the program to easily provide that instruction to all students. Use of the Wave writer in the classrooms and labs will enhance the student's understanding and application of the concepts of litigation support, Communication Access Realtime Translation, realtime writing, interactive realtime and captioning, as required by the Board. Representatives from the Board perform periodic site visits to verify continued compliance with state regulations.
5. Additional Justification for this item:

N/A

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.

Importance:
• '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?

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<thead>
<tr>
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<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>02</td>
<td>68 Classes</td>
<td>Computer</td>
<td>Court Reporting</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Lenovo ThinkPad Edge E425 laptop computer with AMD Accelerated Processor E2-3000M, 14-inch screen, 4GB total memory, 500 GB hard drive. Costs listed are per unit. Budget Acct. No.: 11100 23201 64000 051430

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

College-wide: None
Discipline-Specific: Classroom use

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

We are listing this as a new request, as our primary intended use is that these computers will interface with the requested Wave writers, but they will also replace existing computers that, while they are currently in use, we anticipate the need to replace as they age.

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

n/a

Justification for Item (See Rating Rubric)

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

This equipment is not required to meet Title 5 and/or Ed Code; however this equipment is required to maintain recognition by the Court Reporters Board of California under:

California Code of Regulations Title 16.
Professional And Vocational Regulations
Division 24. Certified Shorthand Reporters Board
Article 2. Court Reporting Schools
Section 2411. Criteria for Recognition of Court Reporting Schools.

2. 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 laptop computers can interface with the requested Wave writers, as well as with our existing Protege writers and/or student-owned machines, to provide instruction and experience in realtime writing, interactive realtime writing, communication access for the Deaf, and captioning. This experience will enhance students’ employability as well as meet Court Reporters Board of California requirements. SLOs for our skillbased class repetitions include steady increase of mastery of realtime translation rates; this equipment will ensure that economically disadvantaged students will have access to the necessary equipment to achieve the SLOs.

3. 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 mandates recently promulgated by the Court Reporters Board of California require that all students gain experience in writing realtime during class hours; provision of these computers will allow economically disadvantaged students to participate in this crucial learning activity. In addition, the Board now requires that before students are qualified to take the state licensing exam, they must demonstrate the ability to set up and connect the hardware components to provide interactive (output to third party) realtime. These computers are necessary in order to efficiently provide that instruction. All court reporting classes would benefit. Prospective court reporting students are looking for programs which provide instruction using current technology.

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

Court reporting students’ primary goal is to qualify to take the state licensing exam. They must become proficient and comfortable with the hardware setup necessary to provide interactive realtime, troubleshooting the setup, and using the system. Exam candidates use computerized writers and laptop computers during the dictation portion of the exam. These computers will greatly enhance the program’s ability to provide skills that will facilitate success on the licensing exam and in the workplace. Outcomes can be measured...
through students' success on the licensing exam, as well as demonstrated increased realtime translation rates.

5. Additional Justification for this item:

N/A
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.

Importance:
• ‘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?

<table>
<thead>
<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>01</td>
<td>Annually: 0 Students</td>
<td>Computer</td>
<td>Dental Assisting</td>
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</table>

Description and part number for ordering:

<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>
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<td>$100.00</td>
<td>$75.00</td>
<td>$6,175.00</td>
</tr>
</tbody>
</table>

Type
- College-wide
- Discipline-Specific

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

We have 6 classroom computers for student use that are over 5-10 years old. IT has informed us that parts are no longer available to repair these CPUs.

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

These student computers are not shared by other departments/programs

Justification for Item (See Rating Rubric)

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

The replacement computers would meet the Educational Codes to provide students with access to computers for class work.
Currently the 6 existing CPUs do not support vendor teaching software such as for office management courses or teaching modules for chairside and radiology.

There are no available parts to upgrade or repair these old computers according to the college IT department.

2. 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 would be improved as the instructor could have class lab assignments during lab time. Some students do not have home computers. These students would be able to use the programed software for interactive learning on such topics as anatomy, tooth morphology, charting exercises, mounting x-ray exercises, intraoral camera imaging, and office management packages.

3. 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 would be improved for students without home computers or students who want to have the instructor present to ask questions regarding the interactive assignments.

There would be 30 students in the day program and 40-60 students in the weekend courses using these computers.

Modern computer systems availability is an expectation of the student of today.

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

The student will be able to:

* complete and print out class assignments
* use interactive programs to enhance learning
* monitor their learning progress
* practice lab skills
* take review mock examinations
* check their course grades
* register for classes
* print out class schedules
* perform self evaluations
5. Additional Justification for this item:
Technology Requests

Part II : Hardware for Lab and Classroom

ECE-2011

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.

Importance:

• ‘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?

<table>
<thead>
<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>01</td>
<td>300 Students</td>
<td>Other</td>
<td>ECE</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

This item has been requested in every program review since 2009-10. 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 $35.00 Qty. 100 Extended Price $3500.00

GRAND TOTAL: $3,798.00

SPECIAL INSTRUCTIONS: Length of Maintenance: Our Preferred Pricing Agreement provides ongoing support & maintenance. Annual support and maintenance agreement extends software maintenance and hardware warranty for an additional 12 months. Software support includes phone and email support, and all software version upgrades and updates. Pricing does not include Shipping and Handling (S&H). S&H costs are based on number of systems purchased and selected delivery method. S&H will be added in at the time of purchase. Systems are shipped via UPS 2 Day Air unless otherwise specified. Preferred pricing agreement provides ongoing support and maintenance.

Qty. | Unit Cost: | Tax: | Shipping: | Total: |
---|------------|------|-----------|--------|
1   | $3,798.00  | $0.00 | $0.00     | $3,798.00 |

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:

N/A

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

We have not had formal discussions but I recently learned that Paul Da Silva has also been requesting Student Response System components for a couple of years. We discussed collaborating...
requesting Student Response System components for a couple of years. We discussed collaborating and conducting joint professional development for other interested disciplines.

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

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

   No

2. **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 4 semesters indicate that one area rated "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.
3. 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

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

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)

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

5. Additional Justification for this item:

This item is in extensive use at many colleges and universities but so far not at COM. ECE has requested this hardware every year since 2009-10. ECE would be the first discipline at COM to incorporate this technology. Both full time ECE instructors are c
## Technology Requests

### Part II: Hardware for Lab and Classroom

#### ELEC-2011

**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.

**Importance:**
- '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?

<table>
<thead>
<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>100 Students</td>
<td>Other</td>
<td>Electronics Technology</td>
</tr>
</tbody>
</table>

**Description and part number for ordering:**

Renewable Energy Supplies for teaching solar thermal, wind and dc motors. Motor kit @ $70
Thermal kits @ $70 ea Wind Kits @ $75 ea

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<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
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<td>$1,520.00</td>
<td>$133.00</td>
<td>$50.00</td>
<td>$1,703.00</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:**

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

- no

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

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

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

   - no
2. 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 parts are required to teach the basics of renewable energy. They will be used to reinforce the lecture portion of the class.

3. 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 gain the practical knowledge of how wind, solar thermal and solar pv system work. Students will be able to see these basic principles in action.

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

Students outcomes will be hard to meet without these items. Students need the hands-on to emphasize the lecture portion of the class.

5. 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.

Importance:
- '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?

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<thead>
<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>02</td>
<td>100 Students</td>
<td>Other</td>
<td>Electronics Technology - Solar PV</td>
</tr>
</tbody>
</table>

Description and part number for ordering:

1- SMA Sunny Boy 700US inverter @ $1000 1- SMA Sunny Boy 2000HF inverter @ $1800

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<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
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<td>$245.00</td>
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<td>$3,175.00</td>
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</table>

Type    | College-wide | Specific
---|---|---
New    | Open Lab    | 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)

no

Justification for Item (See Rating Rubric)

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

   no

2. 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 have been exposed to only one type of inverter in the present classes. Students have not worked on smaller systems or the more complex systems. We need these two inverters to be able to complete our designs.

3. 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?

   These inverters are required to successfully teach solar pv. More students will be attracted to the program with the ability to actually do a mock installation for different sized systems. They must have these hands-on components to succeed in the work for

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

   Student outcomes cannot be met without these items. Students must understand the different systems. The new Sunny Boy high frequency inverters are designed for projects requiring UL certification and represent the next step in innovative SMA technology. Featuring world-class efficiency, a slim-line enclosure and reduced weight, the Sunny Boy HF series of inverters can be mounted in between wall studs, making it perfect for new construction or space-constrained retrofits. These inverters also have a wireless Bluetooth communication system.

5. 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.

Importance:
- '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?

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<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>03</td>
<td>100 Students</td>
<td>Other</td>
<td>Electronic Technology - Solar Thermal</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
80 Gallon Simple Drainback Solar Thermal System - model 80DBSYS1 Includes Solar Thermal Tank Pre-wired w/thermistors, flowmeters, valves Includes one 30 Evacuated Tube Heat Pipe with rack SR-30 Heat Pipe Collector

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<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
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<td>$3,840.00</td>
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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:

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

no

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

no

2. 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 gain the practical knowledge of how basic solar thermal systems work. Students
Students will gain the practical knowledge of how basic solar thermal systems work. Students will be able to apply these basic principles to the more complex systems. We can teach the theory without this system but cannot give the students the practical experience necessary.

3. 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 system is required to successfully teach solar thermal. More students will be attracted to the program with the ability to actually do a mock installation. They must have a hands-on component to succeed in the workforce.

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

Student outcomes cannot be met without these items. Students must understand the different systems - this system being the most simple. Students that wish to be involved with this re-emerging technology must be able to design these systems to fit many different applications. Students must have a grasp of the physical sizes and weights and foot-prints involved.

5. 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.

Importance:
• '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?

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<tr>
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<th>Priority</th>
<th>To Support Annually:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>04</td>
<td>100 Students</td>
<td>Other</td>
<td>Electronic Technology - Solar Thermal</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Heliodyne Indirect Water Heating Single Tank System 4500 watt Electrical Backup - one collector system Includes tank, valves and flowmeters. Includes one Heliodyne Blue Sputter Solar Thermal Collector 4x6 Gobi 406 001
<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
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<td>$7,220.00</td>
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</tbody>
</table>

**Type**

- College-wide: New
- Discipline-Specific: 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)

- no

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

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

   - no

2. 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 gain the practical knowledge of how indirect solar thermal systems work. Students will be able to apply these principles to design more complex systems. We can teach the theory without this system but cannot give the students the practical experience necessary.

3. 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 system is required to successfully teach solar thermal. More students will be attracted to the program with the ability to actually do a mock installation. They must have a hands-on component to succeed in the work for

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

   Student outcomes cannot be met without these items. Students must understand the different systems - this system being the most widely used. Students that wish to be involved with this re-emerging technology must be able to design these systems to fit many different applications. Students must have a grasp of the physical sizes and weights and foot-prints involved.
5. 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.

Importance:
• ‘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?

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<th>To Support Annually:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>05</td>
<td>100 Students</td>
<td>Other</td>
<td>Electronics Technology - Solar Thermal</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Direct Water Heating System Single Tank 4500 watt with electrical backup, with valves and flowmeters. Includes one 4x8 Copper black Chrome Plate Solar Thermal Collector - SLAR32

<table>
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<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
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<td>$5,400.00</td>
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</table>

Type
College-wide
New

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)

no

Justification for Item (See Rating Rubric)

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

   no

2. 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 gain the practical knowledge of how direct solar thermal systems work. Students will be able to apply these principles to the more complex systems. We can teach the theory without this system but cannot give the students the practical experience necessary.

3. 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 system is required to successfully teach solar thermal. More students will be attracted to the program with the ability to actually do a mock installation. They must have a hands-on component to succeed in the work for

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

Student outcomes cannot be met without these items. Students must understand the different systems - this system being required for small compact jobs. Students that wish to be involved with this re-emerging technology must be able to design these systems to fit many different applications. Students must have a grasp of the physical sizes and weights and foot-prints involved.

5. 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.

Importance:
- '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?

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<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>06</td>
<td>100 Students</td>
<td>Other</td>
<td>Electronics Technology - EV</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Parts to upgrade CitiCar #2 consisting of new 14HP 48v DC motor; Alltrax Controller; 48v Lithium Batteries w/charger and BMS; Martek dc/dc converter;
<table>
<thead>
<tr>
<th>Qty.</th>
<th>Unit Cost:</th>
<th>Tax:</th>
<th>Shipping:</th>
<th>Total:</th>
</tr>
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<td>$200.00</td>
<td>$8,584.00</td>
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</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:

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

ACRT

Justification for Item (See Rating Rubric)

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

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

   no

2. 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 parts are required to rebuild the second 1976 Citi Car. These Citi Cars were a reaction to the gas crisis of the 1970's. They are one of the first mass produced 100% electric cars. 2000-3000 car were produced. Students will learn the basic practical design steps of designing and producing a modern electric car.

3. 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 gain the practical knowledge of how current electrical cars are built. Students will be able to apply these basic principles to the electrics and hybrid of today. We are teaching hybrid technology in all of our ACRT Classes. It is expected that 65% of all cars manufactured by 2016 will incorporate hybrid technology or 100% electrics. Having these different systems available will attract new students to the programs.

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

   Students outcomes cannot be met without these items. Students must understand the basics of current electric cars. Restoring this vehicle will allows us to use it as a teaching tool for the rest of the classes. It will provide, in the most simple terms, the basics of all the electric and hybrid designs.
5. Additional Justification for this item:
Technology Requests
Part II : Hardware for Lab and Classroom

English-and-Humanities-2011

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.

Importance:
• '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?

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<tr>
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<th>Priority</th>
<th>To Support Annually:</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>900 Students</td>
<td>Computer</td>
<td>English/Writing Center</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
IT orders these student computers from a pre-approved list.

<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>$0.00</td>
<td>$6,000.00</td>
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</table>

Type
- College-wide
- Discipline-Specific

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)

Shared with all disciplines since all students have access to this lab.

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

More computers in the Writing Center would provide students with more support. These computers are in high demand and students must often wait to get a chance to access a computer. These computers are used by all students at COM; it is a drop in lab environment, staffed by tutors and English Instructors to support students in writing
assignments and papers for ANY class.

2. 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?

3. 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 900 students use the Writing Center every term.

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

5. Additional Justification for this item:
This request is a shared resource, used by students in ALL disciplines.

---

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.

Importance:
- '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?

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<th>Priority</th>
<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>01</td>
<td>0 None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Printers for the Computer Writing Classroom and for the Writing Center

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

These printers are The BC 101 classroom is used by 8-10 classes every semester by English, Basic Skills, ESL Counseling and Testing. Approximately 250 students use it twice weekly in these courses. In addition, the Testing/Assessment office is now holding placement exams in this room. Approximately 500 students are tested each semester.

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

ESL, Basic Skills, Counseling, English, Testing and all other disciplines who use the Writing Center.

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

2. 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?

Allowing students to print work on occasion helps with proofreading and editing skills, encouraging students to become independent learners. Having a printer in the classroom also helps students with their reading skills, since many students, including those with disabilities often have difficulty reading text on the screen.

Since the birth of the Computer Classroom students have had the opportunity to learn using modern writing and research tools. This classroom equipment is in need of repair and upgrades so we can continue to prepare students to write using tools that are now considered common to a writer in any workplace. Students who take writing courses in a computer classroom are better equipped to meet the challenges of a technical workplace.

3. 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?

These printers are The BC 101 classroom is used by 8-10 classes every semester by English, Basic Skills, ESL Counseling and Testing. Approximately 250 students use it twice weekly in these courses. In addition, the Testing/Assessment office is now holding placement exams in this room. Approximately 500 students are tested each semester.
Students often need to print research and papers for class to complete a lesson; in the writing center students often need to work on a hard copy to better grasp the errors and improvements in their writing.

All students who use the writing center and the computer writing classroom will benefit from having access to a printer—over 1000 students. Counseling often uses these resources, along with ESL and English Skills.

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

5. 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.

Importance:
• '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?

<table>
<thead>
<tr>
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<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>Annually: 900 Students</td>
<td>Monitor</td>
<td>English</td>
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Description and part number for ordering:
Monitors to go along with the requested computers for both the Writing Center and the Computer Writing Classroom

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<table>
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<tr>
<th>Type</th>
<th>College-wide</th>
<th>Discipline-Specific</th>
</tr>
</thead>
<tbody>
<tr>
<td>New</td>
<td>Open Lab</td>
<td>Lab use</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:

The 35 monitors currently in the Computer Writing Classroom have not been replaced for over 4 years and are beginning to fail. If the entire order of 35 new monitors cannot be fulfilled. We would request that at least 5 monitors be purchased so that we can replace the broken units that exist.

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

35 monitors shared by --Basic Skills, Counseling, ESL, Testing (in the Computer Writing Classroom)

10 monitors shared in the Writing Center shared by all disciplines.

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

2. 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?

Since the birth of the Computer Classroom and the Writing Center students have had the opportunity to learn using modern writing and research tools. This classroom equipment is in need of repair and upgrades so we can continue to prepare students to write using tools that are now considered common to a writer in any workplace. Students who take writing courses in a computer classroom are better equipped to meet the challenges of a technical work place.

3. 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 BC 101 classroom is used by 8-10 classes every semester by English, Basic Skills and ESL. Approximately 250 students use it twice weekly in these courses. In addition, the Testing/Assessment office is now holding placement exams in this room. Approximately 500 students are tested each semester.

The Writing Center is used by over 900 students each term.

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

~Students will be better prepared to meet the demands of a technological workplace.
~Students will be able to compose and research in real time, working and writing with the instructor in the room to enhance learning.

5. 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.

Importance:
• '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?

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<thead>
<tr>
<th>Importance</th>
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<th>Category</th>
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</thead>
<tbody>
<tr>
<td>A</td>
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<td>10 Classes</td>
<td>Computer</td>
<td>English</td>
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Description and part number for ordering:
PC Computers for the Computer Classroom in BC 101

<table>
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Type
Upgrade

Data-Related
College-wide
Open Lab
Classroom use

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

The machines in BC-101 will be 5 years old in April. Upon the recommendation of the Computer Specialist, Steve Dodson, in charge of technology for this computer classroom, it is time to start thinking of replacing them.

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

This classroom is a shared resource. The room is used by the college at large – as it is treated by OIM as another "schedule-able classroom". It has also been used for placement testing, orientations, counseling classes, FLEX activities and training.) It is also used as a schedule-able classroom – because it fits 35+ students and at the point when they do
NC ESL (LAST) - it is still available at night. Instructors in ESL, Basic Skills and English find it useful for students to learn to use the internet resources to learn English and writing skills, making online dictionaries, websites for doing guided research accessible to students in real time.

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

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

   This computer classroom enhances instruction by allowing students to work on essays and writing assignments in real time with the instructor present. Students use the computers for learning research skills related to writing, for learning how to write on the computers using a specific format, for learning how to compose and organize thoughts using technology to enhance their writing.

   The BC 101 classroom is used by 8-10 classes every semester by English, Basic Skills and ESL. Approximately 250 students use it twice weekly in these courses. In addition, the Testing/Assessment office is now holding placement exams in this room. Approximately 500 students are tested each semester.

2. **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 use of technology in the classroom supports teaching in different modalities to support student needs.

3. **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 BC 101 classroom is used by 8-10 classes every semester by English, Basic Skills and ESL. Approximately 250 students use it twice weekly in these courses. In addition, the Testing/Assessment office is now holding placement exams in this room. Approximately 500 students are tested each semester.

   Additionally, with the adoption of Moodle campus-wide, working in a computer classroom gives students access to their class materials and other online tools to enhance their learning.

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

   Importantly, furnishing computers and keeping them up-to-date allows students to work with technology and to learn how to use up-to-date software and hardware that will allow students to be competitive in today's job market. Becoming comfortable with technology, with working on computers and with writing on a computer is now a necessary skill that the
college must foster and support to best prepare the student for the business world.

5. 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.

Importance:
• '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?

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<th>Discipline Area</th>
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Description and part number for ordering:

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Type
New
College-wide
Library
Discipline-Specific
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. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

2. 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?

Needed by instructors in developing and presenting classroom research instruction session. For use with collection development in the stacks. Portable is essential for
both functions. Allows librarians to work efficiently with library technicians.

3. 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?

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

5. 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.

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

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<td>library</td>
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Description and part number for ordering:

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Type

Discipline-Specific

New

Library

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

   Laptops would be used by basic skill and ESL students in the library that want to work in the carrels. Many of these students cannot afford a laptop but still need access to a laptop in order to succeed in their courses.

2. 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?

3. 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?

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

5. 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.

Importance:
- ‘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?

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<thead>
<tr>
<th>Importance</th>
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<th>Category</th>
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Description and part number for ordering:
Wi Fi Printer

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<tr>
<td>New</td>
<td>Library</td>
<td>Out-of-class</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Assignments</td>
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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. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

   Many of the student in the library use their own laptop for research and typing papers they have put their information on a thumb drive, locate a vacant computer, upload the information then print it. Too many steps and very time consuming. Sometimes the word processing program that they are using is not compatible with our library printers.

2. 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?

3. 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 be able to prints their assignments and go to class without any problems. 20% of our student body would benefit from this request. Existing students would like this new service and it was definitely attract new students.

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

5. 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.

Importance:
- ‘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?

<table>
<thead>
<tr>
<th>Importance</th>
<th>Priority</th>
<th>To Support</th>
<th>Category</th>
<th>Discipline Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>0 None</td>
<td>None</td>
<td>None</td>
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Description and part number for ordering:
Public address system for concerts in the Fine Arts Theater and occasionally in FA 72 (Fender Audio Passport 500 Pro portable PA is one such system)

<table>
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<th>Qty.</th>
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<th>Tax:</th>
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<td>$1,080.00</td>
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Type
- College-wide
- Discipline-Specific

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

We currently have old donated component parts of PA’s with broken channels which sometimes work and are not dependable. We need an integrated compact system which will provide quality sound reinforcement for our concerts when necessary.

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

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
2. Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)

This equipment would be used to enhance our recitals and concerts in the Fine Arts...
Theater and the Lefort Recital Hall. When sound reinforcement is necessary, we need a high quality PA to accurately and naturally reproduce the music played by our students in their performances and not distract from the performance.

2. 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 musical performances of our students will be more accurately reinforced by the suggested equipment. The performer and the listener will be able to hear their performance more clearly so that the reinforcement does not distract from the performance.

3. 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 will improve for all students who need sound reinforcement during their performances. This improvement in sound will be shared by the audience: supporting classmates, other supportive students and the general public.

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

Students who can hear themselves in performance will gain confidence and strive to improve their performance. In performance classes, this is the ultimate goal. If performance class enrollment increases, this is an accurate measure. Increased concert/recital attendance can lead to more students.

5. Additional Justification for this item:

To give a good performance, you need good equipment to lend support when necessary. A compact system does this easily and dependably while providing minimal auditory and well as visual distraction for the performer and audience.

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.

Importance:
- ‘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?
Importance: Priority: To Support Annually: Category Discipline Area
B 04 400 Students Other Music

Description and part number for ordering:
Speakers, preamp/mixer and amplifier for PA72 (LeFort Recital Hall) (Priority 1 group - Modernization FF&E requests)

<table>
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<tr>
<th>Qty.</th>
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<th>Tax:</th>
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Type College-wide Discipline-Specific
Replace Open Lab Classroom use

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

We have PA speakers that were bought for PA72 during a remodel some years ago. These speakers are not adequate for the type of detailed listening that music students are required to do in this classroom. The amplifier was obtained from a different area.

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

Film and other campus activities

Justification for Item (See Rating Rubric)

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

This is both a "smart" classroom and concert hall designed specifically for the purpose of listening to music. These speakers are not designed to deliver the high quality sound necessary for serious listening and analysis. Replacement of this equipment is long overdue!

2. 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?

If students can hear better and more precisely the sounds in any given piece of music, they are better able to distinguish the finer points of musical analysis offered by the instructor in their presentations. When sound reinforcement is needed for classroom or performance needs, this equipment will provide the quality of sound necessary.

3. 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 understanding will be improved with the added quality and definition of the suggested equipment.
4. What student learning or other outcomes are expected? Is it important to the achievement of student goals? How will these outcomes be measured for future planning? What data or evidence supports your request?

Students will be better able to successfully perform the analysis required in the curriculum in their path to completing their goal to become better and more educated musicians. More students will be successful and enjoy the classes. Increased enrollment and concert attendance will be measures.

5. 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>
<tr>
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<th>Category</th>
<th>Discipline Area</th>
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<tbody>
<tr>
<td>B</td>
<td>05</td>
<td>200 Students</td>
<td>Other</td>
<td>Music</td>
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Description and part number for ordering:
Stereo equipment rack (locking) w/doors, Integrated Amp (preamp, mixer, amp) and CD player for FA177 (music classroom)

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Type
Replace

College-wide
Open Lab

Discipline-Specific
Classroom use

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

The stereo equipment in FA 177 is from the 1960's. It is heavy and dangerous to the users. It has no lock. The components are old, some donated, and outdated. We need to update the equipment. The sound quality of the existing equipment is minimal.

Item to be shared with the following Department/Program: (Include any shared expenses)
**Justification for Item (See Rating Rubric)**

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

   This equipment is inadequate for teaching music classes. The cabinet itself is dangerous to those who use it and not suited for today’s audio components. The audio components need to be updated to provide the quality of sound necessary for accurate monitoring of the musical examples used in the classroom. The current stereo cabinet has been in FA177 for almost 50 years. The cover is heavy and dangerous and could cause serious injury if it fell closed unexpectedly on a hand or someone’s head.

2. **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?**

   Improved sound equipment will improve the student's ability to more-correctly hear the music he must analyze to fulfill the requirements of the class.

3. **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 hearing skills will improve with proper equipment. This room serves over 200 students a semester. All will benefit from this improvement. Providing good sound is an absolute necessity in today’s iPod world.

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

   Students will be expected to fulfill the demands of the curriculum easier with these improvements. What better goal for the music student than learning to hear more precisely. This equipment will nurture that goal. Class enrollment student success in successive classes are measures.

5. **Additional Justification for this item:**
Technology Requests
Part II: Hardware for Lab and Classroom

ESL-Noncredit-2011

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.

Importance:
• '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?

<table>
<thead>
<tr>
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<th>To Support Annually</th>
<th>Category</th>
<th>Discipline Area</th>
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<tbody>
<tr>
<td>B</td>
<td>02</td>
<td>100 Classes</td>
<td>Monitor</td>
<td>ESL and Modern Languages</td>
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Description and part number for ordering:
17" Monitors to replace ones that break down in the HC 128 ESL computer lab and the LC 150 Language and Culture Lab.

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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:

We have computers which were put into both of these labs 2-3 years ago. According to the lab tech, monitors are the one area that may go out sooner and having replacements available will speed the process of maintenance.

Item to be shared with the following Department/Program: (Include any shared expenses)
Credit ESL, Noncredit ESL and Modern Languages

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so,
2. 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?

Monitors are essential in order to use computers.

3. 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?

Again, monitors are essential. In HC 128 we have 12 computers. These are for the only drop-in ESL lab on campus which is open 20 hours a week and serves about 20 credit ESL classes and students from many noncredit classes. The LC 150 lab is used year round by all NC ESL classes that meet on the KTD campus and the pronunciation and Listening and Speaking Credit ESL classes as well as by many of the Modern Languages classes. When a monitor goes out, a computer station is lost for students to use.

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

5. Additional Justification for this item:

When they break down, there are no spare parts and program review would take 1-2 years in order to get replacements. During this time, the computers will not be usable. We are trying to be proactive and our supplies budget is not big enough to cover th
Technology Requests

Part II : Hardware for Lab and Classroom

Physics-2011

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.

Importance:
• '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?

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<th>To Support Annually:</th>
<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>200 Students</td>
<td>Computer</td>
<td>Physics</td>
</tr>
</tbody>
</table>

Description and part number for ordering:
Dell XPS L502x – Core i7 2630QM Processor: 2nd Gen Core i7, Intel i7-2630QM / 2 GHz ( 2.9 GHz ) ( Quad-Core ) Memory: 6 GB / 8 GB (max) Hard Drive: 640 GB - Serial ATA-300 - 7200 rpm Display Type: 15.6 in TFT active matrix

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Type
New

College-wide
Discipline-Specific

If this is an upgrade or replacement, please briefly describe your existing equipment in terms of age and capability or lack thereof:
We currently have 4 four to five year old computers that are shared at various times by as many as 8 students per computer.

Item to be shared with the following Department/Program: (Include any shared expenses)
Physics, and possibly college level chemistry which would up the number of students benefiting from these to well over 400.

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
Currently we have no ability to do the most cutting edge type of physics experiments because of a lack of data acquisition abilities. We do have a number of probes and sensors but the computing power in our physics lab is essentially from the last century. Also with enrollments in physics remaining fairly strong and expected to get larger once we have a new full time person, that fact that we only have 4 computing work stations is fairly absurd. Each computer often has to be shared by up to 6 students at a time. Of course there is no real learning taking place for 3 or 4 of these students at a time given only one can control the keyboard and there is really only space for a couple more to even see the monitor well.

We would like to purchase 24 new laptops to not only allow students better access to the experimental data, concepts and results we are asking them to perform and know, but also because buying laptops instead of desktops will free up much needed space in the new building. As many know, we in the physical sciences have worked hard to develop a schedule in conjunction with math and life and earth that alloows our students to move through the science/math curricula in a timely manner. Because of this our physics labs are spread out on times and days that best fit the students need with respect to a full schedule. That being the case there are times throughout the week when the physics/astro and physics/engg labs will not be in use. By keeping the tables clear we can easier schedule numerous chemistry discussion as well as other courses in these rooms. In fact given the layout of the new labs, with group work tables, they will be ideal for the discussion/group problem solving teaching model that we often use in chemistry. We envision a locked cabinet with the 24 computers that can be used in either lab, then put away at the end leaving the lab tables clear for another course.

2. 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 be greatly enhanced given that ALL the students will actually be able to learn, not just the alpha student who takes center stage in front of one of the few available computers. I would say these new computers are essential for both the life science/algebra based physics courses as well as the science and engineering, calculus based physics courses.

3. 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.

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

Ability to gather and analyze data will be significantly improved by allowing greater, immediate access to collected information.

It is well documented that hands on lab experimentation greatly improves student learning, comprehension and retention.

5. 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.

Importance:
• ‘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?

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<th>Discipline Area</th>
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<tr>
<td>B</td>
<td>01</td>
<td>200 Students</td>
<td>Computer</td>
<td>Physics Engineering</td>
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**Description and part number for ordering:**
Dell Mobile Precision M4600 - Fully Customizable

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**Type**
- College-wide: New
- Discipline-Specific: 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)**
Physics Engineering

**Justification for Item (See Rating Rubric)**
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
   Is this software required to meet any local, state or federal Health and Safety Code? If so, how? (Cite code)
   Currently we have no ability to do the most cutting edge type of physics experiments because of a lack of data acquisition abilities. Certain probes and sensors that are widely available can only be run on the most powerful type of computers such as these. These computers will greatly enhance the the physics sequence for science and engineering students.

2. 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 acquire much greater understanding of certain physical phenomena by being able to perform experiments that until now can only be done as thought experiments (we call them dry labs...i.e. we give the data but don't actually do the experiment). These computers will be used throughout the physics 207 series as well as for the majority of ENGG courses, especially materials and circuits.

3. 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 a total of about 200 physics students per year. About 30-45% of these are in the higher level calculus based physics courses.

4. What student learning or other outcomes are expected? Is it important to the achievement of student goals? How will these outcomes be measured for future planning? What data or evidence supports your request?
5. Additional Justification for this item:
Technology Requests
Part II: Hardware for Lab and Classroom

Speech-2011

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.

Importance:
• ‘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?

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<th>Category</th>
<th>Discipline Area</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>01</td>
<td>1080 Students</td>
<td>Computer</td>
<td>Speech</td>
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Description and part number for ordering:
2 new computers - one for HC-171 and one for HC-173 because the current computers often malfunction.

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Type
- College-wide: None
- Discipline-Specific: Classroom use

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

The current computer in HC-171 is 070854 and the current computer in HC-173 is 070851. Both these computers are believed to be seven years or more and probably at the end of their lifespan.

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

A number of different disciplines/programs use both these classrooms. These programs/disciplines include: Nursing, Modern Languages, English, Philosophy, Real Estate, Social Sciences and numerous Community Education (including ESL) classes.

Justification for Item (See Rating Rubric)
1. Is this hardware required to meet Title 5 and/or Ed Code? If so, how? (Cite code)
2. Is this software required to meet any local, state or federal Health and Safety Code? If so,
Many of our students are "at risk" or are with learning disabilities. Reinforcement of the oral message with visual illustrations helps reinforce the learning process.

2. 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?

With new computers there will be less loss of down time for both instructors and students due to the computers being slow to "boot up," the computers "freezing" or the computers "crashing".

3. 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?

Speed in deliverable presentations will increase.

1080 Speech students as well as numerous students across the college-wide spectrum who utilize these classrooms will benefit.

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

Listed below are the Student Learning Outcomes with a brief description of the measured effectiveness of implementing these new resources.

Communication degree SLOs:

Oral Communication/Performance Skills:
Manage communication apprehension to build confidence while communicating with others.

- The computers play DVDs that illustrate different forms of communication apprehension.

Select, prepare and deliver presentations that employ techniques specific to the context and occasion.

- The computers will play software that allow faculty and students to visualize information.

Critical Thinking:

Demonstrate understanding of the relationship between culture and communication.

- The computer allows faculty and students to demonstrate knowledge and
understanding of the relationship between culture and communication.

Interpret media messages to create meanings based on personal experience

- The computer programs help to explain and exemplify different forms of mediated messages.

Describe obstacles to competent intercultural communication, including prejudice, discrimination, stereotyping and ethnocentrism.

- The computer programs help to provide numerous communication theories of the obstacles to competent intercultural communication, including prejudice, discrimination, stereotyping and ethnocentrism through showing various DVDs and live-internet programs.

Problem Solving: Recognize the role of perception and perceptual barriers when communicating with others.

- A faster, better-functioning computer will run DVDs that describe and illustrate the role of perception and perceptual barriers when communicating with others.

Identify prominent Communication Theories and apply them to appropriate contexts.

- This is exactly what the two new computers will allow our Department to accomplish in the two-noted classrooms!

Recognize gender and cultural differences in analyzing communication environments.

- New computers with new software will help to exemplify and illustrate current communication theory on gender and cultural differences in communication environments.

Information Literacy:

Use evidence and rhetorical strategies to support a claim.

- The new computers will play DVDs and provide live-internet access that provide current examples and illustrations of rhetorical theory in communication.

Research historical and social influences in the development of cultures.

- The new computers will play DVDs that illustrate historical and social influences in the development of cultures.

5. Additional Justification for this item:

New computers will save a lot of "down time" in the classroom!