Unit Plan: Equipment Requests [Acct. Category 6000]

Unit: Chemistry
Division or Area to Which You Report: Math/Science
Author(s) of this Unit Plan: Andrew Wells
Date: March 14, 2008

Audience: Budget, Deans
Purpose: To be read and responded to by Budget Committee.
Instructions: Please fill in the following as needed. Text boxes below will expand as you type.
Please note: this form is for equipment whose unit cost is over $200

Brief Title of Request (Project Name): Organic Chemistry Melting Point Apparatus

Building/Location: 3900/3931

Request Amount (include unit cost, total cost, tax, and shipping):

<table>
<thead>
<tr>
<th>Item</th>
<th>3x1574.00 = 4722.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tax</td>
<td>413.18</td>
</tr>
<tr>
<td>Shipping</td>
<td>200.</td>
</tr>
<tr>
<td>Total</td>
<td>5335.18</td>
</tr>
</tbody>
</table>

Description of the specific equipment or materials requested:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Barnstead/Electrothermal Manual MEL-TEMP* Melting Point Apparatus &amp; digital thermometer</td>
</tr>
</tbody>
</table>

What educational programs or institutional purposes does this equipment support?
This equipment will support our program in organic chemistry.

Briefly describe how your request relates specifically to the Educational Master Plan and the Goals and objectives Section of your Unit Plan (Part II, Section 2)?
This equipment supports our organic chemistry program.

Why is this equipment necessary?

_____ Immediate health, safety, or security issues

X Increases enrollment

X Prevents further deterioration of facilities

_____ Replaces deteriorated equipment or facilities

_____ Shows cost advantage due to rising prices

_____ Provides visibility for the Bond Program

Briefly describe how the above criteria are satisfied:

Makes more equipment available for use by the students.

What is the consequence of not funding the equipment?

Lowered laboratory capacity.

What alternative approaches have been considered to meet programmatic demands for this equipment?

None.

How many students will be impacted by the purchase of this equipment? ___ 350 ____

Do students use this equipment? ___ X ___ yes ___ no

Is this equipment a replacement? ____ yes __ x ___ no

Staffing requirements for new equipment (number of staff, are they available, training, etc.):

Will training be required? ____ yes __ x ___ no
At whose cost?

None

What are the estimated ongoing costs (for maintenance, etc.)? None

Are there potential utility costs/savings? None

Is this request CTE (Career Technical Education) Eligible? _____ yes x no
Brief Title of Request (Project Name): Centrifuges

Building/Location: 3900

Request Amount (include unit cost, total cost, tax, and shipping):

- Item: 3X 2189.00 = 6567.00
- Tax: 574.61
- Shipping: 200.00
- Total: 7341.61

Description of the specific equipment or materials requested:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>StatSpin Express 2 Centrifuge (VWR)</td>
</tr>
</tbody>
</table>

What educational programs or institutional purposes does this equipment support?

This equipment will support our program in general chemistry.

Briefly describe how your request relates specifically to the Educational Master Plan and the Goals and objectives Section of your Unit Plan (Part II, Section 2)?

This equipment supports our general chemistry program.

Why is this equipment necessary?

- Immediate health, safety, or security issues
- Increases enrollment
- Prevents further deterioration of facilities
_____ Replaces deteriorated equipment or facilities

_____ Shows cost advantage due to rising prices

Briefly describe how the above criteria are satisfied:
Makes more equipment available for use by the students.

What is the consequence of not funding the equipment?
Lowered laboratory capacity.

What alternative approaches have been considered to meet programmatic demands for this equipment?
None.

How many students will be impacted by the purchase of this equipment? __1200_____

Do students use this equipment? ___ x___ yes ___ x ___ no

Is this equipment a replacement? _____ yes _____ no

Staffing requirements for new equipment (number of staff, are they available, training, etc.):
Will training be required? _____ yes ___ x___ no

At whose cost?
None

What are the estimated ongoing costs (for maintenance, etc.)? None

Are there potential utility costs/ savings? None

Is this request CTE (Career Technical Education) Eligible? _____ yes ___ x no
Brief Title of Request (Project Name): Digital Balances, 0.001g

Building/ Location: 3900/

Request Amount (include unit cost, total cost, tax, and shipping):

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>4x1850.00</td>
<td>$7400.00</td>
</tr>
<tr>
<td>Tax</td>
<td>$647.50</td>
</tr>
<tr>
<td>Shipping</td>
<td>$400.00</td>
</tr>
<tr>
<td>Total</td>
<td>$8447.50</td>
</tr>
</tbody>
</table>

Description of the specific equipment or materials requested:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Sartorius Digital Balances, 0.001g</td>
</tr>
</tbody>
</table>

What educational programs or institutional purposes does this equipment support?

This equipment will support our program in introductory and general chemistry.

Briefly describe how your request relates specifically to the Educational Master Plan and the Goals and objectives Section of your Unit Plan (Part II, Section 2)?

This equipment supports our introductory and general chemistry program.

Why is this equipment necessary?

_____ Immediate health, safety, or security issues    ____X____ Increases enrollment
<table>
<thead>
<tr>
<th>Criteria</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevents further deterioration of facilities</td>
<td>x</td>
</tr>
<tr>
<td>Shows cost advantage due to rising prices</td>
<td></td>
</tr>
<tr>
<td>Replaces deteriorated equipment or facilities</td>
<td>x</td>
</tr>
<tr>
<td>Provides visibility for the Bond Program</td>
<td></td>
</tr>
</tbody>
</table>

**Briefly describe how the above criteria are satisfied:**

Makes more equipment available for use by the students.

**What is the consequence of not funding the equipment?**

Lowered laboratory capacity.

**What alternative approaches have been considered to meet programmatic demands for this equipment?**

None.

**How many students will be impacted by the purchase of this equipment?** _______

**Do students use this equipment?**

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>x yes</td>
</tr>
<tr>
<td>no</td>
</tr>
</tbody>
</table>

**Is this equipment a replacement?**

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>yes</td>
</tr>
<tr>
<td>no</td>
</tr>
</tbody>
</table>

**Staffing requirements for new equipment**

(number of staff, are they available, training, etc.): 

**Will training be required?**

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>yes</td>
</tr>
<tr>
<td>x no</td>
</tr>
</tbody>
</table>

**At whose cost?**

None

**What are the estimated ongoing costs**

(for maintenance, etc.)? $38/balance for calibration.

**Are there potential utility costs/savings?** None

**Is this request CTE (Career Technical Education) Eligible?**

<table>
<thead>
<tr>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>yes</td>
</tr>
<tr>
<td>x no</td>
</tr>
</tbody>
</table>
Brief Title of Request (Project Name): Geiger Counter

Building/Location: 3900

Request Amount (include unit cost, total cost, tax, and shipping):

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1362.00</td>
</tr>
<tr>
<td>Tax</td>
<td>120.00</td>
</tr>
<tr>
<td>Shipping</td>
<td>100.00</td>
</tr>
<tr>
<td>Total</td>
<td>1582.00</td>
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</table>

Description of the specific equipment or materials requested:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Detector Model 3007A Geiger Counter</td>
</tr>
</tbody>
</table>

What educational programs or institutional purposes does this equipment support?

This equipment will support our program in general chemistry.

Briefly describe how your request relates specifically to the Educational Master Plan and the Goals and objectives Section of your Unit Plan (Part II, Section 2):

This equipment supports our general chemistry and allied health chemistry programs.

Why is this equipment necessary?

- Immediate health, safety, or security issues
- Replaces deteriorated equipment or facilities
- Increases enrollment
- Prevents further deterioration of facilities
- Shows cost advantage due to rising prices
Chabot College Unit Plan, Part V (a)

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**Provides visibility for the Bond Program**

**Briefly describe how the above criteria are satisfied:**

Replaces deteriorated Geiger counter.

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**What is the consequence of not funding the equipment?**

Loss of laboratory functionality.

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**What alternative approaches have been considered to meet programmatic demands for this equipment?**

None.

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**How many students will be impacted by the purchase of this equipment?** 1200

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**Do students use this equipment?**  

- Yes [ ]
- No [x]

---

**Is this equipment a replacement?**

- Yes [ ]
- No [x]

---

**Staffing requirements for new equipment**

(number of staff, are they available, training, etc.):

Will training be required?

- Yes [ ]
- No [x]

---

**At whose cost?**

None

---

**What are the estimated ongoing costs**

(for maintenance, etc.)? None

---

**Are there potential utility costs/savings?** None

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**Is this request CTE (Career Technical Education) Eligible?**

- Yes [ ]
- No [x]
Brief Title of Request (Project Name): Analytical Digital Balance

Building/ Location: 3900

Request Amount (include unit cost, total cost, tax, and shipping):

<table>
<thead>
<tr>
<th>Item:</th>
<th>3949.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tax</td>
<td>345.54</td>
</tr>
<tr>
<td>Shipping</td>
<td>100.00</td>
</tr>
<tr>
<td>Total</td>
<td>4394.54</td>
</tr>
</tbody>
</table>

Description of the specific equipment or materials requested:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Analytical Digital Balance, 0.0001g</td>
</tr>
</tbody>
</table>

What educational programs or institutional purposes does this equipment support?

This equipment will support our program in general chemistry.

Briefly describe how your request relates specifically to the Educational Master Plan and the Goals and objectives Section of your Unit Plan (Part II, Section 2)?

This equipment supports our general chemistry program.

Why is this equipment necessary?

_____ Immediate health, safety, or security issues  
_____ Increases enrollment
____Prevents further deterioration of facilities  ____Shows cost advantage due to rising prices

___X___Replaces deteriorated equipment or facilities  ____Provides visibility for the Bond Program

**Briefly describe how the above criteria are satisfied:**

Makes more equipment available for use by the students.

**What is the consequence of not funding the equipment?**

Lowered laboratory capacity.

**What alternative approaches have been considered to meet programmatic demands for this equipment?**

None.

**How many students will be impacted by the purchase of this equipment? _______**

**Do students use this equipment? ___ x__ yes   _____ no**

**Is this equipment a replacement? _____ yes   _____ no**

**Staffing requirements for new equipment** (number of staff, are they available, training, etc.):

**Will training be required? _____ yes   ___ x___ no**

**At whose cost?**

None

**What are the estimated ongoing costs** (for maintenance, etc.)? $38 per balance for calibration.

Are there potential utility costs/ savings? None

**Is this request CTE (Career Technical Education) Eligible? _____ yes   x no**
Brief Title of Request (Project Name): Repair of Gas Chromatographs

Building/ Location: 3900

Request Amount (include unit cost, total cost, tax, and shipping):

<table>
<thead>
<tr>
<th>Item</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2000.00</td>
<td></td>
</tr>
<tr>
<td>Tax</td>
<td>170.00</td>
<td></td>
</tr>
<tr>
<td>Shipping</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>2170.00</td>
<td></td>
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</table>

Description of the specific equipment or materials requested:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Repair of Gas Chromatograph and Computer interface</td>
</tr>
</tbody>
</table>

What educational programs or institutional purposes does this equipment support?

This equipment will support our program in organic chemistry.

Briefly describe how your request relates specifically to the Educational Master Plan and the Goals and objectives Section of your Unit Plan (Part II, Section 2)?

This equipment supports our organic chemistry program.

Why is this equipment necessary?

_____Immediate health, safety, or security issues

X Increases enrollment
Chabot College Unit Plan, Part V (a)

_X_ Prevents further deterioration of facilities

_____ Shows cost advantage due to rising prices

_____ Replaces deteriorated equipment or facilities

_____ Provides visibility for the Bond Program

**Briefly describe how the above criteria are satisfied:**

Makes more equipment available for use by the students.

What is the consequence of not funding the equipment?

Lowered laboratory capacity.

What alternative approaches have been considered to meet programmatic demands for this equipment?

None.

How many students will be impacted by the purchase of this equipment? ___350_____

Do students use this equipment? ___ x __ yes _____ no

Is this equipment a replacement? _____ yes _____ no

**Staffing requirements for new equipment** (number of staff, are they available, training, etc.):

Will training be required? _____ yes ___ x ___ no

At whose cost?

None

**What are the estimated ongoing costs** (for maintenance, etc.)? None

Are there potential utility costs/savings? None

Is this request CTE (Career Technical Education) Eligible? _____ yes _____ no
Brief Title of Request (Project Name): Computer Assisted Data Acquisition System

Building/Location: 3900

Request Amount (include unit cost, total cost, tax, and shipping):

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>36x549.00 = 19764.00</td>
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<tr>
<td>Tax</td>
<td>1729.35</td>
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<tr>
<td>Shipping</td>
<td>500.00</td>
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<tr>
<td>Total</td>
<td>21493.35</td>
</tr>
</tbody>
</table>

Description of the specific equipment or materials requested:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>36</td>
<td>Vernier Labpro Computer interface ($220 each) (Includes software)</td>
</tr>
<tr>
<td>36</td>
<td>Vernier pH sensor (79.00 each)</td>
</tr>
<tr>
<td>36</td>
<td>Vernier Thermocouple (55.00 each)</td>
</tr>
<tr>
<td>36</td>
<td>Vernier Gas Pressure Probe (81.00 each)</td>
</tr>
<tr>
<td>36</td>
<td>Vernier Colorimeter (114.00 each)</td>
</tr>
<tr>
<td></td>
<td>Total per kit: $549.00</td>
</tr>
</tbody>
</table>

What educational programs or institutional purposes does this equipment support?
This equipment will support our program in general chemistry.

Briefly describe how your request relates specifically to the Educational Master Plan and the Goals and objectives Section of your Unit Plan (Part II, Section 2)?

This equipment supports our general chemistry program.

Why is this equipment necessary?

- [x] Increases enrollment
- [x] Prevents further deterioration of facilities

Briefly describe how the above criteria are satisfied:

Makes more equipment available for use by the students.

What is the consequence of not funding the equipment?

Lowered laboratory capacity.

What alternative approaches have been considered to meet programmatic demands for this equipment?

None.

How many students will be impacted by the purchase of this equipment? 1200

Do students use this equipment?

[x] yes  [ ] no
Is this equipment a replacement?  _x_ yes  _____ no

**Staffing requirements for new equipment** (number of staff, are they available, training, etc.):

Will training be required?  _____ yes  __x__ no

At whose cost?  

None

What are the estimated ongoing costs (for maintenance, etc.)? None

Are there potential utility costs/ savings? None

Is this request CTE (Career Technical Education) Eligible?  _____ yes  x no