93-0039L
Marin

Improving College of Marin Biological Science Program

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College of Marin has been a part of Marin County since 1926. Founded as Marin Junior College it granted its first degree in the Spring of 1929. In 1945, the College was renamed College of Marin. In 1970, a second college, Indian Valley Colleges, was added, and its first degree was awarded in 1972. In 1985 the two colleges were consolidated into one singly accredited college, Marin Community College. Today, the college has returned to its earlier name, College of Marin. It offers credit and non-credit classes on two campuses, Kentfield Campus in Kentfield and Indian Valley Campus in Novato, as well as at a number of off-campus sites throughout the county.

The mission of College of Marin is to provide life long learners the opportunity to pursue intellectual, physical, social, ethical, and career development and cultural enrichment in a cohesive and supportive environment. The Board of Trustees annually adopts a Short and Long Range Plan that outlines the College's organizational goals. Among these goals is the College's commitment to ensure that curricula and teaching methods are learner centered and up to date.
Marin

Impact on Systemwide Need

[No information provided in this document for this section.]
The installation of a new autoclave will address A.2.c., educational services maintained in the biological science program and B. 1., Transfer and General Education.
The COM Biology Discipline courses serve non-science, allied health, and science majors. The following list relates the required laboratory hours per week and the types of student majors served by those courses directly related to the activities of this proposal.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Lab Hours Per Week</th>
<th>Student Majors Served</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 110</td>
<td>Intr. to Biology</td>
<td>0</td>
<td>Non-Science, General</td>
</tr>
<tr>
<td>BIOL 110L</td>
<td>Intr. to Biology Lab</td>
<td>3</td>
<td>Non-Science, General</td>
</tr>
<tr>
<td>BIOL 115</td>
<td>Principles of Biology</td>
<td>6</td>
<td>Science, Engineering</td>
</tr>
<tr>
<td>BIOL 116</td>
<td>Principles of Plant and Animal Diversity</td>
<td>6</td>
<td>Science, Engineering</td>
</tr>
<tr>
<td>BIOL 120</td>
<td>Human Anatomy</td>
<td>6</td>
<td>Allied Health, Science</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>Human Physiology</td>
<td>6</td>
<td>Allied Health, Science</td>
</tr>
<tr>
<td>BIOL 240</td>
<td>Microbiology</td>
<td>6</td>
<td>Allied Health, Science</td>
</tr>
</tbody>
</table>

The courses listed above require the availability of a functional autoclave to varying degrees. The preparation of sterile media for the assigned laboratory activities and sterilization of materials for reuse or disposal cannot be done without the autoclave. College of Marin would not be able to serve the allied health, science, and other students whose plans of study require the courses listed above. The short and long-term impact on approximately 300 students per semester would be devastating - they could not take their courses at COM and would have to go to other colleges at a time of significant reductions in course offerings.

In addition, the College Health Center utilizes the autoclave to sterilize some of its equipment (e.g. needles).

The Biology Discipline’s autoclave at the Kentfield Campus has been in service for twenty-two years. It was installed in 1971 when the (then) new Science Center Building opened its doors for the first time. Throughout the years, the Biology Laboratory Technicians have insured the autoclave received the required preventive maintenance and parts replacement in order to maintain support for the scheduled laboratories. A well-maintained autoclave is expected to have a useful life of ten (10) to twelve (12) years depending on whether the use is very continuous (as in a hospital) or periodic (as in a college).

The autoclave is showing signs that its plumbing is getting plugged up and corroded with the resulting potential for the explosive release of superheated steam and water. In September, 1992, the guage glass burst because of a faulty pressure regulator.
Although repaired, this presents a significant hazard to the Biology Discipline's staff. Therefore, this proposal is aimed at obtaining a loan to enable College of Marin to purchase a suitable autoclave to maintain our essential Biology Laboratory offerings.
Approximately 300 students a semester will be served through the courses listed in C3.
In order to procure a functional autoclave for the COM Biology Discipline prior to the start of the Fall Semester 1993, the performance objectives listed below will be accomplished as indicated. The timeline assumes receipt of notification of grant award by COM staff on or about Friday, May 14, 1993.

Objective: To verify previously received bid information from potential autoclave vendors by Friday, May 21, 1993.

Evaluation Standard: All autoclave bid information must be received by COM Biology staff no later than Friday, May 21, 1993 to insure timely processing of the formal bids.

Objective 2: To carry out the necessary COM formal autoclave mandated bid procedures by Friday, June 18, 1993.

Evaluation Standard: The autoclave bid procedures are completed no later than Friday, June 18, 1993 to insure timely processing of the purchasing documentation.

Objective: To process the required autoclave purchasing documentation by Wednesday, June 23, 1993.

Evaluation Standard: All autoclave purchasing documentation will be processed no later than Wednesday, June 23, 1993, in order to allow sufficient time for the vendor and COM processing and planning the shipment and installation.

Objective 4: To insure autoclave is installed at the Kentfield Campus Biology Discipline area by Wednesday, August 18, 1993.

Evaluation Standard: The autoclave is installed and performs according to specifications no later than Wednesday, August 18, 1993, in order to be ready for the first day of class of Fall Semester by Monday, August 23, 1993.

The performance objectives above will be carried out the COM Biology Discipline staff (David Ferguson, Carolyn Ferguson), Department Chair (Kent Addison), Faculty (Eric Stavney), and the Dean of Arts and Sciences (Joaquin C. Armendariz). The COM Fiscal Services and Maintenance staffs will assist the previously mentioned individuals with the detailed business or technical aspects of the project.
The scope of this proposed project is to procure for the COM Biology Discipline a piece of equipment to carry out specific laboratory activities essential to the success of many different majors. Without the autoclave, COM cannot fulfill an important part of its mission in regards to allied health, science, engineering, and non-science majors. As indicated previously, serious student dislocation would result if COM cannot provide laboratory activities as required in our official course outline and by our Articulation Agreements with transfer institutions.

If this proposal is funded, COM will make necessary provisions for paying out the loan per the agreed upon terms and to arrange for the necessary preventive maintenance for the autoclave.
The project will be assessed to insure the autoclave is in place and operational to serve the courses listed in C3.
[No information provided in this document for this section.]
Two initial informal quotations for an industrial sized gravity steam sterilizer, including installation and a year of preventive maintenance, range from $32,377 to $34,614. The College will formally request bids upon award of the FII loan. The loan amount requested is $35,000.