DEPARTMENT FACULTY/STAFF INPUT

An important part of the Program Review process is the consultation and input of all members of the department. Please have each member of the department both full-time and part-time sign below to acknowledge that they were consulted with during the process and were able to provide input.

**NOTE:** This signature does not indicate necessary approval of the data or the analysis or evaluation of the information contained inside this document. It is an indication that you had an opportunity to provide input in the process.

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<tr>
<th>Name of Faculty or Staff Member</th>
<th>Signature</th>
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Department: **Agriculture & Natural Resources**
PART I. ABSTRACT (EXECUTIVE SUMMARY).
In one page or less, summarize the major findings of the Program Review Report. List the key measurements of quality for your department and the results of the data. Provide a brief analysis/explanation of the data and the major future goals supported by the data.

This program is finding innovative ways to grow in size and quality

PART II. KEY MEASUREMENTS OF QUALITY (KQMs)
Key quality measurements (KQMs) are a combination of college-wide data elements (provided to you in a separate report) plus elements that are of particular importance to each department. Please describe below department specific data you consider in preparing this report.

We considered enrollment/FTES, retention, success and number of classes

PART III: ANALYSIS OF KEY QUALITY MEASUREMENTS (KQMs)
Referring to the report of key quality measurements provided by the Office of Institutional Research, please provide your analysis of each indicator included in the report.

KQM 1 – Enrollment trend for the past 5 years:
Enrollment/FTES
Based on total FTES has increased by 12% over the past four years with 11% of that growth occurring from 2004 to 2005 as reflected in FTES rising from 72.43 to 81.24. This growth reflects the introduction of new Environmental education programs, community-need based workshops and community collaboration and outreach under the Mojave Sustainability project

KQM 2 – Enrollment projection for the next 3 years:
This growth is in line with the College Educational Master Plan predicted growth of 18% over the next five years till 2010-2011

KQM 3 – Retention rate:
Retention
Retention rates have improved steadily from 89.7% to 94.4% from 2002 to 2006 a 5% improvement that is significantly better than the college-wide numbers that average in the mid 80% range.
KQM 4 – Persistence rate: NOT INCLUDED THIS YEAR

KQM 5 – Success rate:
Success rates have improved steadily from 67.7% to 82.6% from 2002 to 2006 a 19% improvement that is significantly better than the college-wide numbers that average in the mid 50-69% range

KQM 6 – Job Market: NOT INCLUDED THIS YEAR

KQM 7 – Course Transferability:
We have done a tremendous amount to increase the number of classes available increase of 64% from 27 in 2002 to 42 in 2006 and increased the number that are transferable to 21
And added a Animal Health and Environmental Studies focus to the department

KQM 8 – WSCH/FTEF: NOT INCLUDED THIS YEAR

KQM 9 – Cost Effectiveness: NOT INCLUDED FOR 2007-2008

KQM 10 – Availability of resources: This was NOT provided in a separate report by the Office of Institutional Research. Please provide your own report of the adequacy of resources for department to meet its goals.
Significant internship and career opportunities are available through our partners under the Mojave Sustainability project

Other KQM – List other key quality measures not already listed that pertain to your area.
The MSP has been recognized extensively locally and internationally as a unique model of how an educational institution can collaborate with business and government to provide relevant, hand-on state of the art education

PART IV: CONCLUSIONS
This program will more than double in size as the MSP three year strategic plan is implemented and seeks to provide a model of how VVC can engage the community

PART V: EXPLANATIONS
Please view our Website at mojavesustainability.org for more details and success indicators
PART VI: GOALS

For each department goal requiring additional resources, please respond to all the questions below. (Cut and paste questions as needed for each additional priority).

Priority 1

What is your goal for 2007-2008?
Establish a Environmental Technology and Sustainability Studies Pathway Management Program at VVC that includes an Associate of Science Degree in Environmental Studies and Technology to facilitate the educational path of professionally motivated transfer students. Currently Victor Valley College students regardless of focus in the college agriculture and natural resource management department can only receive an Associate Degree in Environmental Horticulture. By creating a deliberate degree path the importance of the issues addressed through education will be elevated and students bound for careers in natural resource management will be locally prepared to meet these local challenges.

To which College-wide strategic goals is this related?
1. Organizational Excellence - The College’s governance roles and processes are structured to maximize institutional effectiveness.

2. Institutional Commitment to Student Learning and Student Success through Educational Excellence - Student learning will be the central focus in the development, implementation, evaluation, and improvement for all courses, programs, and services.

3. Economic and Community Development - The College will effectively meet changing community needs for education leading to employment, cultural enrichment, civic, political and social responsibilities.

4. Diverse Populations - The College will increase access opportunities by improving programs and services to better serve an increasingly diverse campus population.

5. Effective Technology Integration - The College will integrate and utilize technology and provide quality technological training for the creation and delivery of instruction, support of programs and services, and the improvement of institutional effectiveness to enhance student learning.

How will you know if the goal was successful (measurement)?
Increased student enrollment in our applied natural science and technology classes
Increased student completion of related certificates…..
The number of students completing the new Environmental Technology Associates Degree
Increased student retention

How will the goal be accomplished (key activities)?
   a) Obtaining approvals for recognition of the degree from State of California.
   b) Expanding linkages/articulation with advanced degree universities and other VVC departments to better facilitate transfer and broaden the audience of students for whom natural resource management courses apply.
   c) Providing counseling for students to encourage them to take full advantage of all the resources available at VVC, local four year Universities and empower them to make wise choices along their educational pathway.
   d) Facilitating internships and mentoring opportunities with local professionals and industry.
e) Building college-wide recognition of the value of this essential new focus for our students.

What additional resources are you requesting?

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<tr>
<th>General Description</th>
<th>Projected cost</th>
<th>One-time or base increase?</th>
<th>Additional Comment</th>
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<tbody>
<tr>
<td>Personnel Environmental Technology Lab Assistant</td>
<td>$54,000</td>
<td>Base increase</td>
<td></td>
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<tr>
<td>GPS receivers and hand-held computers</td>
<td>$16,000</td>
<td>One-time</td>
<td></td>
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<tr>
<td>Soils and Water Analysis equipment</td>
<td>$35,000</td>
<td>One-time</td>
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Priority 2

What is your goal for 2007-2008?
Deliver applied natural sciences that get to the substance of our world's environmental issues and support the more traditional sciences in the general education path of advanced degree bound students. These include:

- Environmental Science (offered 2x per year)
- Soil Science (offered 1x per year)
- Plant Science (offered 1x per year)
- Introduction to GIS (offered 1x per year)
- Geospatial Technology (offered 1x per year)
- Plant Materials and Usage I and II (offered 1x per year)
- Fundamentals of Environmental Horticulture (offered 2x per year)
- Water Resource Management (offered 1x per year)
- Equine Science (offered 2x per year)
- Animal Science (offered 1x per year)

To which College-wide strategic goals
Department: Agriculture & Natural Resources

2. Institutional Commitment to Student Learning and Student Success through Educational Excellence - Student learning will be the central focus in the development, implementation, evaluation, and improvement for all courses, programs, and services.

3. Economic and Community Development - The College will effectively meet changing community needs for education leading to employment, cultural enrichment, civic, political and social responsibilities.

4. Diverse Populations - The College will increase access opportunities by improving programs and services to better serve an increasingly diverse campus population.

5. Effective Technology Integration - The College will integrate and utilize technology and provide quality technological training for the creation and delivery of instruction, support of programs and services, and the improvement of institutional effectiveness to enhance student learning.

How will you know if the goal was successful (measurement)?
- Increased student enrollment in our applied natural science and technology classes
- Increased student completion of related certificates.....
- The number of students completing the new Environmental Technology Associates Degree
- Increased student retention

How will the goal be accomplished (key activities)?
- Submit three classes for update to the VVC Curriculum Committee to include Learning Outcomes
- Revise and align Student learning Objectives in GIS classes
- Bring GIS technology and Lab up to standard

What additional resources are you requesting?

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<tr>
<th>General Description</th>
<th>Projected cost</th>
<th>One-time or base increase?</th>
<th>Additional Comment</th>
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<tr>
<td>Personnel Environmental Technology/GIS Instructor</td>
<td>$80,000</td>
<td>Base increase</td>
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<tr>
<td>Equipment 20 Computer Stations</td>
<td>$44,000</td>
<td>One time</td>
<td>GIS enabled With network cards and Cabling</td>
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<tr>
<td>Instructional Supplies</td>
<td>$12,000</td>
<td>Continuation of 2006-2007 Augmentation to include new</td>
<td>To maintain the labs and educational quality in this departments three main Focuses: Environmental;</td>
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<td>programs/focuses</td>
<td>Animal; Horticulture</td>
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Department: **Agriculture & Natural Resources**
Priority 3

What is your goal for 2007-2008?
Develop a new Animal Health Technology Vocational Certificate. This program is intended to engage the many high school students that are involved in Future Farmers of America, and open their horizons to new fields of study and careers in conservation, natural resource management, and GIS. Students will also be encouraged to explore the social economic and environmental components of sustainable agriculture and whether the Mojave Desert should allow cattle grazing and the recreational use of horses. This certificate will have the advanced breeding techniques of artificial insemination, embryo transfer, embryo freezing and semen cryo-preservation as a focus. This advanced technology used within the fields of animal husbandry is a great teaching tool and has the potential to translate into the management of endangered species. This program will articulate with the existing human biotechnology program (Biology department) on campus to develop the skills for using biotechnology to produce food in a more efficient and environmentally friendly manner.

To which College-wide strategic goals
2. Institutional Commitment to Student Learning and Student Success through Educational Excellence - Student learning will be the central focus in the development, implementation, evaluation, and improvement for all courses, programs, and services.
3. Economic and Community Development - The College will effectively meet changing community needs for education leading to employment, cultural enrichment, civic, political and social responsibilities.
4. Diverse Populations - The College will increase access opportunities by improving programs and services to better serve an increasingly diverse campus population.
5. Effective Technology Integration - The College will integrate and utilize technology and provide quality technological training for the creation and delivery of instruction, support of programs and services, and the improvement of institutional effectiveness to enhance student learning.

How will you know if the goal was successful (measurement)?
Increased student enrollment in our applied natural science and technology classes
Increased student completion of related certificates…..
The number of students completing the new Environmental Technology Associates Degree
Increased student retention
How will the goal be accomplished (key activities)?
Submit two new classes (Animal Health Lab) to the VVC Curriculum Committee to include Learning Outcomes.
Revise and align Student learning Objectives in existing Animal Science classes
Refurbish Animal Barn and Lab to standard

What additional resources are you requesting?

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<th>Projected cost</th>
<th>One-time or base increase?</th>
<th>Additional Comment</th>
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<tr>
<td>Lab Stations and equipment</td>
<td>$16,000</td>
<td>One-time</td>
<td>8@$2,000</td>
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<tr>
<td>Centrifuge</td>
<td>$5,300</td>
<td>One-time</td>
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<tr>
<td>Cryo-preservation equipment</td>
<td>$21,000</td>
<td>One-time</td>
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College-Wide Strategic Goals

The following revised set of strategic goals for the College were adopted by the Board of Trustees in 2005. These goals will provide the general direction for development of strategies the College will adopt and implement in the coming years:

1. **Organizational Excellence** - The College’s governance roles and processes are structured to maximize institutional effectiveness.

2. **Institutional Commitment to Student Learning and Student Success through Educational Excellence** - Student learning will be the central focus in the development, implementation, evaluation, and improvement for all courses, programs, and services.

3. **Economic and Community Development** - The College will effectively meet changing community needs for education leading to employment, cultural enrichment, civic, political and social responsibilities.

4. **Diverse Populations** - The College will increase access opportunities by improving programs and services to better serve an increasingly diverse campus population.

5. **Effective Technology Integration** - The College will integrate and utilize technology and provide quality technological training for the creation and delivery of instruction, support of programs
and services, and the improvement of institutional effectiveness to enhance student learning.

6. **Learning Centered Resource Management** - Through utilization of prudent fiscal policies and the proactive entrepreneurial pursuit of increased revenue, the College will work diligently to secure solid financial resources to meet current and future enrollment growth, community learning needs and learning outcomes.