**Executive Summary**

(After completing the questions on the next few pages, please replace this area with a written executive summary of the questions that follow, including your data analysis, findings, action plan, and improvements you have already made. This will be the top sheet of your report. This summary should be at least a paragraph, and can definitely be longer if desired.)

In comparing the PLO’s of Plant Science to the ILO’s of the Intuition, it was found that not all the ILO’s are even possible to access seeing that several of the ILO’s are not remotely relevant to the Plant Science program curriculum. As an example even when I tried to stretch to the out of the box thinking, I was not able to make a connection with photosynthesis and the expression of dance. However, within the other intuitional ILO’s the students performed with a success rate of 94% as the high and 76% as the low.

The action plan would be to increase the opportunity of cooperative learning by implementing group management projects within the different courses that are being offered in the Plant Science Program. These assignments reinforce the principles of ecology, soil science, plant science and environmental sustainability.

**Faculty Included in the Preparation and Sharing of this Report:**

(Please replace this area with the names of all faculty that helped to prepare and provide input on this report. This includes faculty who were parts of draft discussions and conversations. Ideally, it is all faculty representing the core disciplines making up the degree or certificate.)

Mike Morales

Dale Pollard

Phil Brumley

Gilbert Hernandez

**Please provide a brief and cogent narrative in response to each of the following questions.**

1. Provide a quantitative analysis for each ILO your CLOs inform. Provide the total number of students who passed/total number of students assessed in each ILO column *and* the corresponding ILO passing rate as an aggregated percentage.

**INSTITUTIONAL LEARNING OUTCOMES Students Passed/Assessed TOTAL RATE**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Articulate ideas through written, spoken, and visual forms appropriately and effectively in relation to a given audience and social context.* | | *Utilize interpersonal and group communication skills, especially those that promote collaborative problem-solving, mutual understanding, and teamwork.* | | *Mindfully and respectfully listen to, engage with and formally respond to the ideas of others in meaningful ways.* | | *Plan, design, and produce creative forms of expression through music, speech, and the visual and performing arts.* | |
| **83%** | | **91%** | | **94%** | | **#DIV/0!** | |
| **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** |
| **695** | **839** | **29** | **32** | **29** | **31** | **0** | **0** |

Communication

1. *Articulate ideas through written, spoken, and visual forms appropriately 695/839 83%*

*and effectively in relation to a given audience and social context.*

1. *Utilize interpersonal and group communication skills, especially those that 29/32 91%*

*promote collaborative problem-solving, mutual understanding, and teamwork.*

1. *Mindfully and respectfully listen to, engage with and formally respond to the 29/31 94%*

*ideas of others in meaningful ways.*

1. *Plan, design, and produce creative forms of expression through music, speech, N/A N/A*

*and the visual and performing arts.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Analyze differences and make connections among intellectual ideas, academic bodies of knowledge and disciplinary fields of study.* | | *Develop and expand upon innovative ideas by analyzing current evidence and praxis, employing historical and cultural knowledge, engaging in theoretical inquiry, and utilizing methods of rational inference.* | | *Utilize the scientific method and solve problems using qualitative and quantitative data.* | | *Demonstrate the ability to make well-considered aesthetic judgments.* | |
| **93%** | | **88%** | | **76%** | | **#DIV/0!** | |
| **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** |
| **547** | **588** | **408** | **463** | **48** | **63** | **0** | **0** |

Creative, Critical and Analytical Thinking

1. *Analyze differences and make connections among intellectual ideas, academic 547/588 93%*

*bodies of knowledge and disciplinary fields of study.*

1. *Develop and expand upon innovative ideas by analyzing current evidence and 408/463 88%*

*praxis, employing historical and cultural knowledge, engaging in theoretical*

*inquiry, and utilizing methods of rational inference.*

1. *Utilize the scientific method and solve problems using qualitative and 48/63 76%*

*quantitative data.*

1. *Demonstrate the ability to make well-considered aesthetic judgments. N/A N/A*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Interpret and analyze ideas of value and meaning exhibited in literature, religious practices, philosophical perspectives, art, architecture, music, language, performance and other cultural forms.* | | *Describe the historical and cultural complexities of the human condition in its global context, including the emergence and perpetuation of inequalities and the interplay of social, political, economic and physical geographies.* | | *Analyze and evaluate the value of diversity, especially by collaborating with people of different physical abilities and those with distinct linguistic, cultural, religious, lifestyle, national, and political backgrounds.* | | *Demonstrate a pragmatics of ethical principles, effective citizenship, and social responsibility through cross-cultural interactions, volunteerism, and civic engagement.* | |
| **#DIV/0!** | | **#DIV/0!** | | **#DIV/0!** | | **#DIV/0!** | |
| **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** |
| **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |

Cultural Literacy and Social Responsibility

1. *Interpret and analyze ideas of value and meaning exhibited in literature, N/A N/A*

*religious practices, philosophical perspectives, art, architecture, music, language,*

*performance and other cultural forms.*

1. *Describe the historical and cultural complexities of the human condition in its N/A N/A*

*global context, including the emergence and perpetuation of inequalities and the*

*interplay of social, political, economic and physical geographies.*

1. *Analyze and evaluate the value of diversity, especially by collaborating with N/A N/A*

*people of different physical abilities and those with distinct linguistic, cultural,*

*religious, lifestyle, national, and political backgrounds.*

1. *Demonstrate a pragmatics of ethical principles, effective citizenship, and social N/A N/A*

*responsibility through cross-cultural interactions, volunteerism, and civic*

*engagement.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Effectively access information and critically evaluate sources of information.* | | *Analyze, synthesize and apply information practically and ethically within personal, professional and academic contexts.* | | *Identify, utilize and evaluate the value of a variety of technologies relevant to academic and workplace settings.* | |
| **83%** | | **83%** | | **88%** | |
| **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** |
| **661** | **793** | **661** | **793** | **427** | **487** |

Information and Technology Literacy

*1. Effectively access information and critically evaluate sources of information. 661/793 83%*

*2. Analyze, synthesize and apply information practically and ethically within 661/793 83%*

*personal, professional and academic contexts.*

*3. Identify, utilize and evaluate the value of a variety of technologies relevant to 427/487 88%*

*academic and workplace settings.*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| *Identify and assess individual values, knowledge, skills, and abilities in order to set and achieve lifelong personal, educational, and professional goals.* | | *Practice decision-making that builds self-awareness, fosters self-reliance, and nourishes physical, mental, and social health.* | | *Apply skills of cooperation, collaboration, negotiation, and group decision-making.* | | *Exhibit quality judgment, dependability, and accountability while maintaining flexibility in an ever-changing world.* | |
| **83%** | | **87%** | | **#DIV/0!** | | **87%** | |
| **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** | **Students Passed** | **Students Assessed** |
| **659** | **793** | **454** | **519** | **0** | **0** | **454** | **519** |

Personal and Professional Development

*1. Identify and assess individual values, knowledge, skills, and abilities in order to set 659/793 83%*

*and achieve lifelong personal, educational, and professional goals.*

*2. Practice decision-making that builds self-awareness, fosters self-reliance, and 454/519 87%*

*nourishes physical, mental, and social health.*

*3. Apply skills of cooperation, collaboration, negotiation, and group decision-making. N/A N/A*

*4. Exhibit quality judgment, dependability, and accountability while maintaining 454/519 83%*

*flexibility in an ever-changing world.*

1. Reflect on, consider and analyze the data you have. ***What does your CLO data tell you about how your students are achieving ILOs?*** *Be detailed, descriptive and analytical* in this qualitative assessment of each ILO in relation to your CLO data. **Are your results satisfactory?**

With a low of 76% and a high of 94% we feel that the students are doing an outstanding job of achieving the ILO’s that we can access.

1. Your department and the college should be making improvements based on student learning outcomes assessment, and we need to continue to document and share the improvements and progress you have already made. Did you make any changes in your CLO statements or analysis during the last 4-year cycle? Did you receive funding for resources requests that were aimed to improve assessment results? Did you make any improvements in the areas of teaching and instruction processes, your courses, or your program? *Please explain your accomplishments and provide details about your efforts.*

In the past year we have made changes to the CLO’s by changing the words that were selected in the old CLO’s to describe what the students were going to be able to do at the end of the course. This clarified to the students what was expected of them. Normal instructional funding was used to improve the success rate of the students by upgrading instructional equipment to more modern equipment that is used in industry. In addition to upgrading the instructors’ (Mike Morales) web page to include the courses offered in a two year span so one will know when the courses are offered and take them in a sequential manner to complete their degree (s). In designing the web page accordingly, this has reduced the number of students missing a class and then falling behind schedule. In the Plant Science program, major courses are offered on an every other year basis. So, if the student misses a course, it would be two more years before the course would be offered again. Thus the student would have to stay a third year in order to finish their two year degree.

1. **Action Plan.** Based on the assessments and analysis you have provided, please consider what changes or improvements you would like to make, which might include updating your CLO statements, modifying course outlines, rethinking instruction efforts, using different assessment instruments, asking for additional resources to improve assessment results, etc. ***Based on the analysis, provide an action plan for improvement that draws on your assessment results and efforts.***

In comparing the PLO’s of Plant Science to the ILO’s of the Intuition, it was found that not all the ILO’s are even possible to access seeing that several of the ILO’s are not remotely relevant to the Plant Science program curriculum. As an example even when I tried to stretch to the out of the box thinking, I was not able to make a connection with photosynthesis and the expression of dance. However, within the other intuitional ILO’s the students performed with a success rate of 94% as the high and 76% as the low.

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