

"We Strive to Guarantee Quality and Excellence"

Palau Community College is an accessible public educational institution helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence.

T2 - Instructional Departments (Academic Departments) Three Year Program Review

Natural Science department

Fall 2018 to Summer 2021

Program Review Completed By:

2

Name	Title	Signature	Date
Vernice Yuji	Science Dept. Chair	Vernie Aiz	May 4, 2022

Program Review Certified By:

Name	Title	Signature	Date
Deikola Olikong	Dean, Academic Affairs	A A A	May 4, 2022

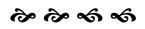
Program Review Received By: (Institutional Research & Evaluation Office)

Name Title	Signature	Date	
Ligaya T. Sara Institutional Researcher	Alm	May 4, 2022	

Purpose:

Department review at Palau Community College is a process that provides an extensive evaluation of academic and non-academic programs on a three year basis. The results of yearly assessments (using the FAMED process) are compiled into the one three year review cycle.

The purpose of department review is to evaluate department sufficiency to allow definite strategies to be developed for major revisions, to provide information for consideration when decisions are made, and to develop recommendations to improve institutional effectiveness.



Instructions for completing Program Review:

- 1. Type your text into the boxes. The text boxes will expand to accommodate the amount of text spaces you need.
- 2. Individual instructions are included before each section. Examples are in <u>green</u>, remove when you start writing.
- 3. Submit completed and signed Program Review in both hard copy and electronic copy format to the Institutional Research & Evaluation Office.
- 4. Required supporting documents must be included during submission.

Appendix A:CLOs – GE/ILOs Mapping (e-copy only)Appendix B:Most Updated & Approved Outlines within this cycle (e-copy only)Appendix C:FAMED grid of all course assessment data within review cycle
(e-copy in pdf only)

5. Be sure to keep both hard and electronic copies for your file.

Note: Other college plans may include the 15-Year Institutional Master Plan, the 5-Year Technology Plan, Institutional Learning Outcomes, Institutional-Set Standards for Student Achievement, or other plans, such as an approved department plan or committee plan.

I. Academic Department Purpose and Relationship to the College Mission

1. State the mission of this academic department below.

The mission of the Department of Natural Sciences is to help students develop a strong science background and critical thinking skills through meaningful in- and out-of-class experiences. The Department aims to provide students with an understanding and appreciation of the natural world from a scientific perspective. The Department of Natural Sciences strives to remain consistent with the educational mission of Palau Community College by helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence.

2. How is the academic department supporting the overall mission of the College?

Courses in the natural sciences are designed to prepare students for living and working in a world where science informs both public and private issues. Science courses aim to provide students with a basic understanding of the discipline and to help students explore its theories, principles, models and reasoning processes; to examine the methods and values of the discipline; and to review the historical and cultural context of the discipline and its relation to the wider world of ideas. Natural sciences courses are offered in the fields of biology, chemistry, geology, environmental science and physics and serve students majoring in environmental/marine science, STEM and Nursing programs as well as those seeking to fulfill their general education requirements for graduation.

The mission of the Department of Natural Sciences is to help students develop a strong science background and critical thinking skills through meaningful in- and out-of-class experiences. The Department aims to provide students with an understanding and appreciation of the natural world from a scientific perspective. The Department of Natural Sciences strives to remain consistent with the educational mission of Palau Community College by helping to meet the technical, academic, cultural, social, and economic needs of students and communities by promoting learning opportunities and developing personal excellence.

3. Provide a brief history of this academic department below. Include the updates of major changes and accomplishments since the last review.

The Natural Science Department supports the entire college community by providing a wide variety of science courses required for each student's majors, especially the EMS, STEM and Nursing programs. The department also supports the Liberal Arts education and other academic programs and aims to providing students with a solid foundation in a number of disciplines and providing training in scientific methods, technical laboratory skills, and field research techniques. The history of the science

department is traced back to 1976, during Micronesian Occupational College (MOC) when it was called natural science department. The department was formed based on three discipline groups and they were: biological, chemical, and physical science. The discipline groups were established to meet the needs of occupational students in the area of science. Subject areas included botany, chemistry, physics, and biology.

Updates since the last review include the development and implementation of an Introduction to Environmental Science course (SC103), first offered in Fall 2017. This course is an introduction to environmental science. It is designed to give students a basic understanding of the Earth's life-supporting, ecological systems, and threats to those systems. Students will learn to determine and analyze human impacts to natural environmental systems and identify and differentiate between different types of pollution sources and their environmental impacts. There is no prerequisite for this course. This course may be taken to fulfill SC core under Required General Education courses in every degree program.

Additional update, number of contact laboratory hours were reduced from two hours and fifty minutes to one hour and thirty minutes in Fall 2020. Recommendation by the Dean of Academic Affairs.

II. Student and Faculty Data

Figure 1 – Course Completion Data

You may insert more rows as needed

Table 1a. Course Completion of Department Courses (Fall)

	FA 2018			FA 2019				FA 2020						
Course	%Passed	%Failed	%Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
SC159A	15	0	5	20	SC159A	14	0	4	18	SC103	38	1	8	47
SC103	33	1	6	40	SC103	26	0	3	29	SC159A	15	0	1	16
					SC206	1	0	0	1	SC206	4	0	0	4

Table 1b. Course Completion of Department Courses (Spring)

	SP 2019					SP 2020				SP 2021				
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
SC159B	10	0	1	11	SC159B	5	3	0	8	SC103	33	0	7	40
SC205	1	0	0	1	SC205	4	0	0	4	SC159B	13	0	1	14
SC209	6	0	0	6	SC209	6	0	0	6	SC205	1	0	0	1
SC103	29	0	4	33	SC103	30	6	4	36	SC209	13	0	0	13

SU 2019			SU 2020				SU 2021							
<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled	<u>Course</u>	Passed	Failed	Withdraw	Enrolled
SC103	19	0	1	20	SC103	41	1	0	42	SC103	38	0	2	40

Table 1c. Course Completion of Department Courses (Summer)

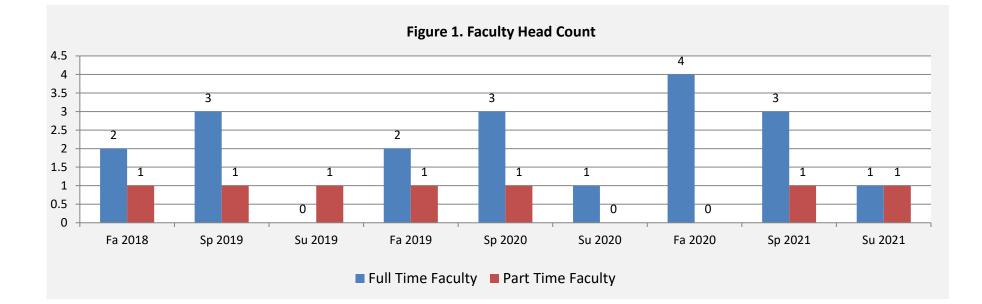
Provide Summary of Tables 1a, 1b & 1c including its trends analysis below.

Table 1a-Enrollment for SC159A in table 1a was high as it is a prerequisite for most nursing courses. There were three sections of SC103 to accommodate students.

Table 1b-There were two sections of SC103 to accommodate students.

Table 1c-SC205 was offered to accommodate STEM students.

Figure 1 – Faculty Information



Provide summary of Figure 1 including its trends analysis below.

Part time faculties are needed every semester to help teach science courses and assist in other department needs.

III. Student Learning and Curriculum

School	How many department	% of	List all revised department	% of CLOs
Year	courses are there? (refer	courses with	courses outlines or proposed new	aligned with
	to catalog or most recent	Identified	courses that received CPC	GE/ILOs
	approval by CPC)	CLOs	approval within this review cycle	
2018-2021	6	100%	100%	100%

Provide Summary of Student Learning and Curriculum in the box below. Summary should include reasons for course revisions and course proposals. If any course went through the validity process during this cycle, include the information here.

Development and implementation of an Introduction to Environmental Science course (SC103), first offered in Fall 2017. There is no prerequisite for this course. This course may be taken to fulfill SC core under Required General Education courses in every degree program.

IV. Course Assessment Data

Year 1: School Year 2018

Semester	Course	CLO-GE/ILO Mapping	Results of Assessments
Assessed	Assessed		(Do not combine CLO results; report individual CLO results ONLY.)
Fall 2018	SC159A	CLO 1 GE/ILO 1-3	CLO 1: 85% performed at the proficiency level
		CLO 2 GE/ILO 1-3	CLO 2: 80% performed at the proficiency level
		CLO 3 GE/ILO 1-3	CLO 3: 85% performed at the proficiency level
		CLO 4 GE/ILO 1-3	CLO 4: 80% performed at the proficiency level
		CLO 5 GE/ILO 1-3	CLO 5: 80% performed at the proficiency level
		CLO 6 GE/ILO 1-3	CLO 6: 85% performed at the proficiency level.
Fall 2018	SC103	CLO 1-GE/ILO-1-5	CLO 1: 91.4% performed at the proficiency level.
		CLO 2-GE/ILO-1-3,5	CLO 2: 88.5% performed at the proficiency level.
		CLO 3-GE/ILO-1-5	CLO 3: 85.7% performed at the proficiency level.
		CLO 4-GE/ILO-1-3,5	CLO 4: 85.3% performed at the proficiency level.
		CLO 5-GE/ILO-1-3,5	CLO 5: 87.9% performed at the proficiency level.
		CLO 6-GE/ILO-1-3,5	CLO 6: 87.9% performed at the proficiency level.

Semester	Course	CLO-GE/ILO Mapping	Results of Assessments
Assessed	Assessed		(Do not combine CLO results; report individual CLO result.)
Spring 2019	SC159B	CLO 1-3-GE/ILO 1-3	CLO 1: 87.50% performed at the proficiency level
		CLO 1-3-GE/ILO 1-3	CLO 2 : 83.33% performed at the proficiency level.
			CLO 3: 84.62% performed at the proficiency level.
Spring 2019	SC209	CLO 1-GE/ILO 1-5	CLO 1: 83.3% performed at the proficiency level.
		CLO 2-GE/ILO 1-3	CLO 2: 83.3% performed at the proficiency level.
		CLO 3- GE/ILO 1-3	CLO 3: 66.7% of performed at the proficiency level.
		CLO 4-GE/ILO 1-3	CLO 4: 83.3% performed at the proficiency level.
		CLO 5-GE/ILO 1-3	CLO 5: 83.3% performed at the proficiency level.
		CLO 6-GE/ILO 1-3	CLO 6: 83.3% performed at the proficiency level.
Spring 2019	SC103	CLO 1-GE/ILO-1-5	CLO1: 100% performed at the proficiency level.
		CLO 2-GE/ILO-1-3,5	CLO 2: 92.8% performed at the proficiency level.
		CLO 3-GE/ILO-1-5	CLO 3: 85.7% performed at the proficiency level.
		CLO 4-GE/ILO-1-3,5	CLO 4: 84.6% performed at the proficiency level.
		CLO 5-GE/ILO-1-3,5	CLO 5: 100% performed at the proficiency level.
		CLO 6-GE/ILO-1-3,5	CLO 6: 91.7% performed at the proficiency level.
Spring 2019	SC205	CLO 1-GE/ILO 1-3	CLO 1: 100% performed at the proficiency level.
		CLO 2-GE/ILO 1-3	CLO 2: 100% performed at the proficiency level.
		CLO 3-GE/ILO 1-3	CLO 3: 100% performed at the proficiency level.
		CLO 4-GE/ILO 1-3	CLO 4: 100% performed at the proficiency level.
		CLO 5-GE/ILO 1-3	CLO 5: 100% performed at the proficiency level.
		CLO 6-GE/ILO 1-3	CLO 6: 100% performed at the proficiency level.

Year 2: School Year 2019

Semester	Course	CLO-GE/ILO Mapping	Results of Assessments
Assessed	Assessed		(Do not combine CLO results; report individual CLO result.)
Fall	SC159A	CLO 1 – GE/ILO 1-3	CLO 1: 87.5% performed at the proficiency level.
2019			
		CLO 2 – GE/ILO 1-3	CLO 2: 83.3% performed at the proficiency level.
		CLO 3 -GE/ILO 1-3	CLO 3: 84.6% performed at the proficiency level.
		CLO 7 – GE/ILO 1-3	CLO 7: 81.2% performed at the proficiency level.
		CLO 11 – GE/ILO 1-3	CLO 11: 76.5% performed at the proficiency level.
		CLO 12 – GE/ILO 1-3	CLO 12: 85.7% performed at the proficiency level
Fall	SC103	CLO 1-GE/ILO-1-5	CLO 1: 100% performed at the proficiency level.
2019			
		CLO 2-GE/ILO-1-3,5	CLO 2: 100% performed at the proficiency level.

		CLO 3-GE/ILO-1-5	CLO 3: 100% performed at the proficiency level.
		CLO 4-GE/ILO-1-3,5	CLO 4: 100% performed at the proficiency level.
		CLO 5-GE/ILO-1-3,5	CLO 5: 100% performed at the proficiency level.
		CLO 6-GE/ILO-1-3,5	CLO 6: 100% performed at the proficiency level.
Fall 2019	SC206	CLO 1-GE/ILO 1-3	CLO 1: 100% performed at the proficiency level.
		CLO 2 GE/ILO 1-3	CLO 2: 100% performed at the proficiency level.
		CLO 3 GE/ILO 1-3	CLO 3: 100% performed at the proficiency level.
		CLO 4 GE/ILO 1-3	CLO 4: 100% performed at the proficiency level.
		CLO 5 GE/ILO 1-3	CLO 5: 100% performed at the proficiency level.
Spring 2020	SC103	CLO 1-GE/ILO-1-5	CLO 1: 100% performed at the proficiency level.
		CLO 2-GE/ILO-1-3,5	CLO 2: 89.5% performed at the proficiency level.
		CLO 3-GE/ILO-1-5	CLO 3: 89.5% performed at the proficiency level.
		CLO 4-GE/ILO-1-3,5	CLO 4: 100% performed at the proficiency level.
		CLO 5-GE/ILO-1-3,5	CLO 5: 100% performed at the proficiency level.
		CLO 6-GE/ILO-1-3,5	CLO 6: 100% performed at the proficiency level.
Spring 2020	SC159B	CLO 1-3-GE/ILO 1-3	CLO 1: 100% performed at the proficiency level
		CLO 1-3-GE/ILO 1-3	CLO 2: 100% performed at the proficiency level
			CLO 3: 100% performed at the proficiency level
Spring 2020	SC205	CLO 1-GE/ILO 1-3	CLO 1: 100% performed at the proficiency level.
		CLO 2-GE/ILO 1-3	CLO 2: 100% performed at the proficiency level.
		CLO 3-GE/ILO 1-3	CLO 3: 100% performed at the proficiency level.
		CLO 4-GE/ILO 1-3	CLO 4: 100% performed at the proficiency level.
		CLO 5-GE/ILO 1-3	CLO 5: 100% performed at the proficiency level.
		CLO 6-GE/ILO 1-3	CLO 6: 100% performed at the proficiency level.
Spring 2020	SC209	CLO 1-GE/ILO 1-5	CLO 1: 83.3% performed at the proficiency level.
		CLO 2-GE/ILO 1-3	CLO 2: 66.7% performed at the proficiency level.
		CLO 3- GE/ILO 1-3	CLO 3: 83.3% performed at the proficiency level.
		CLO 4-GE/ILO 1-3	CLO 4: 66.7% performed at the proficiency level.
		CLO 5-GE/ILO 1-3	CLO 5: 83.3% performed at the proficiency level.
		CLO 6-GE/ILO 1-3	CLO 6: 83.3% performed at the proficiency level.

Year 3: School Year 2020

1001 5. 50	1001 1 cui 2	020	
Semester	Course	CLO-GE/ILO Mapping	Results of Assessments
Assessed	Assessed		(Do not combine CLO results; report individual CLO result.)
Fall	SC159A	CLO 1 – GE/ILO 1-3	CLO 1: 100% performed at the proficiency level.
2020			
		CLO 2 – GE/ILO 1-3	CLO 2: 100% performed at the proficiency level.
		CLO 3 – GE/ILO 1-3	CLO 3: 100% performed at the proficiency level.
		CLO 4 – GE/ILO 1-3	CLO 4: 100% performed at the proficiency level.

Series COVID-19 this subject/content was it discussed in class so another subject was discussed instead. CLO 6 - GE/ILO 1-3 CLO 6. CLO 6. GE/ILO 1-3 Fall SC103 CLO 1-GE/ILO-1-5 Fall SC103 CLO 1-GE/ILO-1-5 CLO 2-GE/ILO-1-3,5 CLO 2: 96.7% performed at the proficiency level. CLO 3-GE/ILO-1-3,5 CLO 2: 96.7% performed at the proficiency level. CLO 4-GE/ILO-1-3,5 CLO 4: 96.7% performed at the proficiency level. CLO 4-GE/ILO-1-3,5 CLO 4: 96.7% performed at the proficiency level. CLO 4-GE/ILO-1-3,5 CLO 4: 96.7% performed at the proficiency level. CLO 4-GE/ILO-1-3,5 CLO 4: 96.7% performed at the proficiency level. CLO 4-GE/ILO-1-3,5 CLO 6: 95.2% performed at the proficiency level. CLO 2-GE/ILO-1-3 CLO 1: 100% performed at the proficiency level. CLO 2-GE/ILO-1-3 CLO 2: 100% performed at the proficiency level. CLO 4-GE/ILO-1-3 CLO 2: 100% performed at the proficiency level. CLO 3-GE/ILO 1-3 CLO 2: 100% performed at the proficiency level. CLO 4-GE/ILO-1-3,5 CLO 1: 0: 1: 72.2% performed at the proficiency level. CLO 3-GE/ILO 1-3,5 CLO 2: 64.7% performed at the proficiency level. Spring SC103 CLO 1-GE/ILO-1-3,5		T	I		
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Provide Summary of Course Assessment Data with analysis results in the box below. Summary should include how assessment results have led to improvement of course and department learning outcomes, and student learning and achievement.

Course assessment results have led to improvement of course and department learning outcomes, and student learning and achievement.

Due to the COVID pandemic in March 2020, like all other institutions of higher learning, PCC had to create distance-learning opportunities to enable students to complete the 2019–2020 academic year. Distance learning, also known by various names such as distance education, e-learning, mobile learning, or online learning, is a form of education where there is physical separation of teachers from students during the instruction and learning process. It is also an instructional practice that effectively utilizes a wide range of tools and technology to enrich the student learning experience and to facilitate student-faculty and student-student communication. PCC's technological requirements for successful distance learning include the acquisition of hardware such as a computer, mobile device (cellular phones), or webcam, some form of listening device, video conferencing applications such as WebEx or Zoom, Microsoft Windows or Apple operating systems, and a stable internet connection.

V. General Education / Institutional Learning Outcomes (GE/ILO) Assessment

	Year Assessed	List GE/ILOs	Proficiency Level	Result of Assessments (Do not combine GE/ILO results; report individual GE/ILO result.)
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Year Assessed	List GE/ILOs	Proficiency Level	Result of Assessments (Do not combine GE/ILO results; report individual GE/ILO result.)

Provide Summary of GE/ILOs Assessments and analysis results in the box below. Summary should include analysis of this cycle with previous cycles; how assessment results have led to major decisions made to support the improvement of department's student learning and student achievement.

Course assessment results have led to major decisions made to support the improvement of department's student learning and student achievement.

VI. Evaluation of Previous Department Review Action Plan (s)

Indicate the status of the previous department review action plans below. (Include all previous action plans.) Indicate the cycle and years of the previous department review.

Cycle: Years:	

Action Plan Activity/Objectives	Status Complete/Ongoing/Incomplete	Updates of Action Plan(s) (Report action plans individually.)
Previous department review	Incomplete	Work order was not followed up.

Provide Summary of the Evaluation of Previous Department Review Action Plans below. Summary should include what measurable outcomes were achieved due to the actions completed; were the completed actions plans led to improvement of student learning and student achievement; and provide detailed explanation of action plans that are ongoing and plans that are incomplete.

VII. Action Plans

Based on current department review results, describe the department action plan(s) for the next three (3) academic years. Include necessary resources.

Action Plan Activity/Objective	How will this action plan improve student learning outcomes? (CLO, GE, ILO)	Needed Resources (if any)	Timeline
Personnel	needed to help teach science courses and assist in other department needs	\$16,000/annually	Fall 2019
Facility	Shelves and cabinets are infested with termites; holes in ceilings and leaks when it rains. New science lab facility creation is in the planning process.	\$5,000	ASAP
Equipment	Laboratory stools Autoclave	\$3,500	ASAP

Provide Summary of Action Plans in the box below. Summary should include department major strengths; department needs and any recommendations for improvements based on assessment results, data and/or other college major plans. The summary needs to indicate overall department needs that may require financial support from the institution.

Additional full time faculty is needed to help teach science courses and assist in other department needs. Shelves and cabinets are infested with termites; holes in ceilings and leaks when it rains. More science labs being offered concurrently at full capacity, additional stools for students to sit are needed. An autoclave is needed for Microbiology Labs prep and sterilization purposes.

IX. Resource Request

Itemize resource request below to include resource requests that will support action plans and are datadriven (e.g. course enrollment, course needs, student needs). This section should provide a clear representation of the department's annual budget request.

Type of Resource	Detailed Description	Estimated Amount	Justification
		Requested	
Personnel	Full- time	\$16,000/annual	Additional full time
			faculty is needed to
			help teach science
			courses and assist in
			other department needs.
Facility	Science Lab A & B; and	\$5,000	Shelves and cabinets
	chemical storage		are infested with
	_		termites; holes in
			ceilings and leaks when
			it rains.
Equipment	Laboratory stools	\$500.00	More science labs
			being offered
			concurrently at full
			capacity
Supplies			
Software			
Training			
Other	Autoclave	\$3,000.00	Needed for
			Microbiology Labs
			prep and sterilization
			purposes
Total		\$24,500.00	

Provide Summary of Resource Request in the box below. Summary should connect the resources requested to course, department and institutional learning outcomes assessment results and/or any other college major plans.

Floor plan and built in equipment list for the new science facility is being compiled and to be submitted to Academic Affairs and follow-up for updates.

Do not forget to include all your required appendices. Required appendices are listed on page 2 of this template.