

YEARLY PLANNING DISCUSSION TEMPLATE

General Questions

Program Name: CHEMISTRY Academic Year: 2022-2023

1. Has your program mission or primary function changed in the last year?

The primary function of the Chemistry program has not changed. The Chemistry program mission aligns with the mission of Allan Hancock College, in that it provides quality educational opportunities that enhance student learning, and the intellectual and economic vitality of our diverse community.

2. Were there any noteworthy changes to the program over the past year? (eg, new courses, degrees, certificates, articulation agreements)

The CHEM140_Introductory Organic Chemistry course was updated to include Biological chemistry to help it align better with programs that require this course as a prerequisite.

Learning Outcomes Assessment

- a. Please summarize key results from this year's assessment.

Trends of PLOs > 70%

Still waiting on SPOL data since just transferred to a new input system.

- b. Please summarize your reflections, analysis, and interpretation of the learning outcome assessment and data.

V.P. Murphy gave the okay to hold off on data at this point due to new SPOL system.

- c. Please summarize recommendations and/or accolades that were made within the program/department.

We recommend a Team Leader for the CHEM120 Introductory Chemistry course. The duties will include helping new adjunct faculty with lecture and lab materials to help facilitate consistency across sections and campuses.

- d. Please review and attach any changes to planning documentation, including PLO rubrics, associations, and cycles planning.

Updated from Student Learning Outcomes to Program Learning Outcomes when it comes to evaluating programs.

Changed to SPOL system to help input program learning outcomes and to help faculty evaluate the effectiveness of their programs.

3. Is your two-year program map in place and were there any challenges maintaining the planned schedule?

There are overlapping courses (every odd year in FALL) with Engineering Physics (PHY163) and Organic Chemistry (CHEM180) when students are Chemical Engineer majors. This will be addressed with our CORE TOPIC: Innovative Scheduling during the 2023-2024 school year.

4. Were there any staffing changes?

Yes, Jim Houlis, Spencer Schultz, and Michael Hughes were hired to help with deficiencies in our program created by two vacancies and a growth position. Steve O'Neill retired after 49 years of service due to the pandemic, and Danae Madrid quit after 6 years of service.

5. What were your program successes in your area of focus last year?

Outreach programs to two nearby Elementary schools (Dana Elementary), transfer rates remaining steady, and BullDog Bound by our new faculty.

CTE two-year review of labor market data and pre-requisite review

6. Does the program meet documented labor market demand?

N/A

7. How does the program address needs that are not met by similar programs?

N/A

8. Does the employment, completion, and success data of students indicate program effectiveness and vitality? Please, explain.

N/A

9. Have recommendations from the previous report been addressed?

N/A

Validation for Program Planning Process:

10. Who have you identified to validate your findings? (Could include Guided Pathway Success Teams, Advisory Committee Members, related faculty, industry partners or higher education partners)

Related Faculty:

Sean Gottlieb, Jim Houlis, Michael Hughes, Dustin Nouri, and Spencer Schultz

11. Are there specific recommendations regarding the core topic responses from the validation team?

We will be looking at the CORE TOPIC: INNOVATIVE SCHEDULING next year. We just completed a Program Review in 2022, and are observing issues with course overlaps between different disciplines.

**PLAN OF ACTION –
POST-VALIDATION
Six Year**

DEPARTMENT: Life and Physical Sciences PROGRAM: CHEMISTRY

RECOMMENDATIONS THAT REQUIRE ADDITIONAL RESOURCES

Theme/Objective/
Strategy Number TARGET
AHC from Strategic DATE
Plan

RECOMMENDATIONS THAT REQUIRE ADDITIONAL RESOURCES	Theme/Objective/ Strategy Number AHC from Strategic Plan	TARGET DATE
Facilities 1) Service the fume-hoods annually as Cal OSHA requires (Keenan). 2) LVC3-102, 3-114, 2-212, and 2-102 need smart podium upgrades. 3) Need new whiteboards for Santa Maria campus: M205/M213 4) Need new whiteboards for Lompoc Valley campus: LVC3-102/114/202 5) Need new projector screens for SM campus: M205/M-213 6) Need new projector screens for LVC: LVC3-102/114/202 7) LVC 3-102 requires new ballasts for lighting – COMPLETED2023 8) Expansion into M212? (\$235,000) Administration has other needs.	A.1/ A.4/ B.1/ B.2/ B.3/ E.1/ E.2	1) ONGOING 2) ONGOING 3) FALL2025 4) FALL2025 5) SPRING2026 6) SPRING2026
Equipment 1) SM Gloves (\$10,000) LVC Gloves (\$10,000) 2) SM Equipment under \$500 (\$4,000) LVC Equipment under \$500 (\$3,000) + inflation (\$1200) + inflation (\$1200) 3) SM Goggles (\$12,000) LVC Goggles (\$12,000) 4) SM 32 Hot Plates (\$27,840) 5) LVC 16 Hot Plates (\$13,920) 6) SM 16 Centrifuges (\$38,400) 7) LVC Water Bath (\$900) 8) Student laptops at SM and LVC campuses need to be refreshed!! 9) LVC MelTemp equipment for CHEM140 (\$7200) 10) SM Analytical Balance (\$3,500) COMPLETED2023 11) LVC 7 Analytical Balances (\$42,000) COMPLETED2022 12) ChemDraw Software (\$4,250) COMPLETED2023 13) SM Repairs (\$500) Added2023 LVC Repairs (\$500) 14) LVC Fume hoods and gas lines for new chemistry lab (LVC3-109) – Administration has other plans. 15) SM gas lines and lab benches/stools for new chemistry lab (M-212) Administration has other plans. 16) LVC 16 Stirrers (\$5,400) COMPLETED2023	A.1/ A.4/ B.1/ B.2/ B.3/ D.6/ D.7/ E.1/ E.2	1) ONGOING 2) ONGOING 3) ONGOING 4) FALL2025 5) SPRING2026 6) FALL2024 7) SPRING2026 8) FALL2023!!! 9) SPRING2028 10) FALL2022 11) FALL2023 12) FALL2026 13) FALL2027 14) SPRING2024

<p>Staffing</p> <p>1) Need full time chemists to help fill the demand and need of the current sections offered and expanding. COMPLETED 2023</p> <p>2) SM Chemistry and Biology Lab Associate Position (+\$55,000)</p> <p>3) LVC Chemistry and Biology Lab Associate Position (+\$55,000)</p>	<p>A.1/A.4/B.1/B.2/ B.3/E.1/E.2</p>	<p>1) FALL2023 FALL2025</p> <p>2)SPRING2023!!</p> <p>3)FALL2026</p>
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