



**Instructional Program Review – Annual Update
2021**

Date:	April 2021
Program and Department:	Chemistry: Life and Physical Sciences
CTE Program?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Additional programs included in this review:	N/A
Date of last comprehensive review:	2016
Submitted By:	Dustin Nouri
Attachments (* as needed):	<input type="checkbox"/> 6-year assessment plan – All programs, when applicable <input type="checkbox"/> 2-year scheduling plan <input type="checkbox"/> Justification for Resource Requests (if needed)

I. Alignment of the Program with the AHC Mission

AHC Mission: Allan Hancock College fosters an educational culture that values equity and diversity and engages students in an inclusive learning environment. We offer pathways that encourage our student population to achieve personal, academic, and career goals through coursework leading to associate degrees, certificates, transfer, and skills building.

a. Have there been any changes that would require a change to your Program Mission?

No changes have been made.

b. Explain how your program mission aligns with the college mission.

The college mission and values can be found here: <https://www.hancockcollege.edu/about/mission.php>

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.

II. Student Success, Program Accessibility and Program Capacity

*NO data analysis required this year.

*NO data analysis required for 2021.

- a. Describe how the program works to promote student success (completions job placement, transfer). Include teaching innovations and use of academic and student support.

We are part of Bulldog Bound events to help encourage students to continue their educational careers.

We are part of the Friday Night Science event to help make the public aware of our facilities.

We utilize the STEM and MESA centers to help with students' needs.

- b. List any notable accomplishments of the program (student awards, honors, or scholarships can be listed here also)

The chemistry discipline is required of many courses as a prerequisite and most of our students are on the path to transferring to our near-by universities.

III. Quality and Innovation in the Program and Curriculum Review

- a. Are you on track in your assessment plan for course and program SLOs? If not, please explain why.

All chemistry courses are on track to be updated.

- b. Have you shared your assessments or improvement plans with your department, program or advisory committee? If so, what actions resulted? If not, how do you plan to do so in the future?

Yes. Chemistry faculty utilize the improvement plans to communicate needed equipment and supplies.

- c. Did any of section, course or program improvement plans indicate that your program would benefit from specific resources in order to support student learning and/or faculty development? If so, please explain.

As a science discipline, we must always think several semesters ahead to make sure equipment, instruments, and supplies stays functional and available.

- d. In reviewing your outcomes and assessments have you identified any and all that indicate a modification should be made to the course outline, the student learning outcomes or the program outcomes? Please state what modifications you will be making.

None at this time.

- e. Have all course outlines been reviewed within the last 5 years? If not, please explain the plan to bring course outlines up to date and include timelines for the review and submission to AP&P.

Yes. All course outlines were reviewed during the 2015/2016 Comprehensive Program Review and again during this upcoming Program Review.

- f. For **CTE courses/programs only**, as per §55003, have prerequisites, corequisites and advisories (PCAs) for courses and/or programs been reviewed within the last 2 years?

N/A

IV. Focus and Engagement of the Program

- a. Summarize major trends and opportunities as well as challenges that have emerged in the program

Finding adequate faculty to fill the demand of our growing program.

- b. List any (internal or external) conditions that have influenced the program in the past year.

The COVID-19 pandemic.

Data for Program with Vocational TOP Codes (CTE):

<https://misweb.cccco.edu/perkins/main.aspx>

Please review the data and comment on any trends.

- c. Current industry employment and wage data (please cite sources)

N/A

d. Industry employment and wage trends

N/A

e. TOP code employment CORE indicator report

N/A

f. Advisory committee recommendations

N/A

V. Continuous Improvement of the Program

a. Status of Final Plan of Action – Post Validation

Summarize the progress made on the recommendations from your last comprehensive program review plan of action

PLAN OF ACTION	ACTION TAKEN/RESULT AND STATUS
Continuing to follow the recommendations to improve SLOs and the Educational Environment.	ON GOING

b. List any new resources that the program received in the past year and the results

Source	Specific Resource	Est. Amount \$	Impact on program or course outcomes
Equipment	pH meters (SM) 16 pH meters (LVC) 16	\$48,000	CHEM150/151 SLO6 can continued to be assessed.
Equipment	Large hotplate	\$1,200	CHEM120/150/151 SLO6 can continued to be assessed.
Equipment	Analytical balances	14,000	CHEM120/150/151/180/181 SLO6 can continued to be assessed.
Equipment	Water baths (SM) 4 Water baths (LVC) 5	\$6,000	CHEM120/150/151 SLO6 can continued to be assessed.
Equipment	KBr Pellet Press	\$1,000	CHEM180/181 SLO6 can continued to be assessed.

c. List any new or modified recommendations below, including rationale for these in the table.

Program Improvement Plan (Program, Priority Number, year)	Anticipated Outcome (Goal)	Program Goal Status (Indicate if this goal is ongoing from a previous Annual Or Comprehensive Program Review or new this year).	Alignment to Strategic Directions and planning goals (see "Alignment to Strategic Directions" Attached	Activities	Justification (Evidence of need)	Resource Request (From table Below)	Anticipated Completion Date or On-going
CHEM, 1, 2021	IR2	On-going, but additional this year.	SLS2	Deionized water (LVC)	Equipment rental	PC:190500 AC: 569000	On-going
CHEM, 2, 2021	IR2	On-going, but additional this year.	SLS2	Travel	Materials need to be available.	PC:040100 AC:521000	On-going
CHEM, 3, 2021	IR2	On-going, but additional this year.	SLS2	Student workers at SM.	More courses available.	PC:190500 AC:243000	On-going
CHEM, 3, 2021	IR2	On-going, but additional this year.	SLS2	Student workers at LVC.	More courses available.	PC:190500 AC:243000	On-going
CHEM, 4, 2021	IR2	On-going, but additional this year.	SLS2	Gloves at LVC.	Protection for students.	Lottery funds	On-going
CHEM, 4, 2021	IR2	On-going, but additional this year.	SLS2	Gloves at SM.	Protection for students.	Lottery funds	On-going
CHEM, 5, 2021	IR3	New this year.	SLS1,2,4,6	Lab Equipment: Spectrophotometers	CHEM150/151 ILOs	Equipment prioritization.	FALL 2021

d. Summary of request for resources. Please list the type of request (facility, technology, staffing, equipment, other) and rank their priority.

Resource Requests (Program, RRX year)	Item	Program Goal	Type	One-time cost	On-going cost (per fiscal year)	Anticipated Completion Date or On-going
CHEM 2021	Deionized water (LVC)	SLS2 IR2	Supplies	--	On-going (\$200)	On-going Code (569000)
CHEM 2021	Travel reimbursement for lab technicians at LVC.	SLS2 IR2	Staffing		On-going (\$602) *Praxair *Grocery store *LVCcampus to SMcampus	On-going Code (521000)
CHEM 2021	Travel reimbursement for lab technicians at SM.	SLS2 IR2	Staffing		On-going (\$165) *Praxair *Grocery store *SMcampus to LVCcampus	On-going Code (521000)
CHEM 2021	Student workers (LVC)	SLS2 IR2	Staffing (Covers minimum wage hike)	--	On-going (\$3,100 additional)	On-going Code (190500) (243000)
CHEM 2021	Student workers (SM)	SLS2 IR2	Staffing (Covers minimum wage hike)	--	On-going (\$3,100 additional)	On-going Code (190500) (243000)
CHEM 2021	Large hotplate	SLS1,2,4,6 IR3	Equipment	\$1,200	--	Fall 2021
CHEM 2021	Gloves (SM)	IR2	Supplies	--	On-going (10,000)	On-going
CHEM 2021	Gloves (LVC)	IR2	Supplies	--	On-going (12,000)	On-going
CHEM 2021	UV lamps	SLS1,2,4,6 IR3	Equipment	\$1,000	--	Fall 2021
CHEM 2021	UV lamp cabinet	SLS1,2,4,6 IR3	Equipment	\$500	--	Fall 2021
CHEM 2021	Spectrophotometers (16) (SM)	SLS1,2,4,6 IR3	Equipment	--	\$50,000	Fall 2021