ACS Assessment Tool

for Chemistry in Two-Year College Programs

Section VII. Undergraduate Research, Internships, and Related Opportunities

Scope of assessment tool section

The following is Section VII of the *ACS Assessment Tool for Chemistry in Two-Year College Programs*. The form will guide you through a self-assessment of the following topics:

* Research
* Internships or cooperative learning experiences
* Long-term projects

Other sections of the tool address other aspects of chemistry-based education. For a more in-depth evaluation of chemistry or chemistry-based technology education at your institution, use the complete *ACS Assessment Tool for Chemistry in Two-Year College Programs*.

***Note:*** for ease of use, the assessment tool is password-protected. If you wish to edit the form, you may unlock it using the password, “assess.”

The assessment tool is a resource developed by ACS to facilitate the assessment of chemistry education with respect to the *ACS Guidelines for Chemistry in Two-Year College Programs*. The assessment tool is designed to allow chemistry faculty and administrations to assess the achievements and areas for improvement of the chemistry-based programs and courses at their institution. Developed by two-year college chemistry faculty, it is managed by the ACS Undergraduate Programs Office with input from the Undergraduate Programs Advisory Board and the Assessment Review Panel.

VII. Undergraduate Research, Internships, and Related Opportunities

1. **Which of the following are aligned with the mission and goals of the institution and/or program? (Check all that apply.)**

[ ]  Original scholarly research

[ ]  Student internships or co-operative learning experiences (co-ops)

[ ]  Long-term student projects

[ ]  None of these are aligned with the mission and goals of the institution or program.

1. **Which of the following opportunities are available? (Check all that apply.)**

[ ]  Faculty-led chemistry or chemical education research

[ ]  Student-led chemistry research

[ ]  Student internships or co-operative learning experiences (co-ops)

[ ]  Long-term student projects

[ ]  None of these opportunities are available.

| A. Research(See Section 6.1 of the ACS Guidelines for Chemistry in Two-Year College Programs, p. 23-24.)**Provide the following information about research at this institution.** |
| --- |
| ***Faculty or institutional unit(s) involved*** | Click here to enter text. | ***Average number of students participating each term*** | Choose an item. |
| ***Average faculty hours per week***  | Choose an item.  | ***Average total student hours per week*** | Click here to enter text. |
| Location | Choose an item. |
| ***Funding source (Check all that apply)*** | [ ]  Institution[ ]  Government grant[ ]  Academic partners | [ ]  Industrial or government partners[ ]  Other (specify): Click here to enter text. |
| ***How often are research opportunities available to students?***  | Choose an item. |  |
| Which of the following are attributes of the students’ research projects?  | [ ]  Defined topic and achievable goals[ ]  Access to and use of appropriate chemical literature and equipment | [ ]  Methodologies appropriate for potential publication in a peer-reviewed journal[ ]  Appropriate safety practices |
| Student outputs (Check all that apply) | [ ]  Journal articles[ ]  Internal written reports[ ]  Posters for external presentation | [ ]  Posters for internal presentation[ ]  Student evaluations[ ]  Other (specify): Click here to enter text.[ ]  Most projects have no outputs. |
| ***Student evaluators (Check all that apply)*** | [ ]  Institutional faculty[ ]  Institutional staff[ ]  Faculty at partnering institutions | [ ]  Industrial or governmental partners[ ]  Other (specify): Click here to enter text. [ ]  Students do not have formal evaluations. |
| ***Student compensation (Check all that apply)*** | [ ]  Academic credit[ ]  Financial compensation[ ]  Tuition reimbursement | [ ]  Other (specify): Click here to enter text.[ ]  Students receive no compensation. |
| ***Field(s) of study*** | Click here to enter text. |

Provide any additional comments on research at this institution.

 Click here to enter text.

| B. Internships or cooperative learning experiences(See Section 6.2 of the ACS Guidelines for Chemistry in Two-Year College Programs, p. 24.)**Provide the following information about experiential opportunities available to students.** |
| --- |
| ***Faculty or institutional unit(s) involved*** | Click here to enter text. | ***Average number of students participating each term*** | Choose an item. |
| ***Average faculty hours per week***  | Choose an item.  | ***Average total student hours per week*** | Click here to enter text. |
| Location | Choose an item. |
| ***Funding source (Check all that apply)*** | [ ]  Institution[ ]  Government grant[ ]  Academic partners | [ ]  Industrial or government partners[ ]  Other (specify): Click here to enter text. |
| ***How often are internships and/or cooperative learning opportunities available to students?***  | Choose an item. |  |
| Which of the following are attributes of the students’ internships and/or cooperative learning opportunities?  | [ ]  Hands-on, independent work [ ]  Application of chemical theory[ ]  Application of student skills, as critical thinking, verbal and written communication, and workplace ethics[ ] Specific goals and objectives that apply to the hiring organization [ ]  Specific goals and objectives that apply to the college | [ ]  Supervision by a qualified professional[ ]  Tangible contribution to the work of the group[ ]  Conditions similar to those experienced in full-time employment[ ] Routine feedback by experienced supervisor[ ] Appropriate resources, equipment, and facilities provided by employer |
| Student outputs (Check all that apply) | [ ]  Journal articles[ ]  Internal written reports[ ]  Posters for external presentation | [ ]  Posters for internal presentation[ ]  Student evaluations[ ]  Other (specify): Click here to enter text.[ ]  Most internships have no outputs. |
| ***Student evaluators (Check all that apply)*** | [ ]  Institutional faculty[ ]  Institutional staff[ ]  Faculty at partnering institutions | [ ]  Industrial or governmental partners[ ]  Other (specify): Click here to enter text. [ ]  Students do not have formal evaluations. |
| ***Student compensation (Check all that apply)*** | [ ]  Academic credit[ ]  Financial compensation[ ]  Tuition reimbursement | [ ]  Other (specify): Click here to enter text.[ ]  Students receive no compensation. |
| ***Field(s) of study*** | Click here to enter text. |

Provide any additional comments on chemistry student internships.

 Click here to enter text.

| C. Long-term projects(See Section 6.3 of the ACS Guidelines for Chemistry in Two-Year College Programs, p. 24-25.)**Provide the following information about long-term project opportunities available to students.** |
| --- |
| ***Faculty or institutional unit(s) involved*** | Click here to enter text. | ***Average number of students participating each term*** | Choose an item. |
| ***Average faculty hours per week***  | Choose an item.  | ***Average total student hours per week*** | Click here to enter text. |
| Location | Choose an item. |
| ***Funding source (Check all that apply)*** | [ ]  Institution[ ]  Government grant[ ]  Academic partners | [ ]  Industrial or government partners[ ]  Other (specify): Click here to enter text. |
| ***How often are long-term projects available to students?***  | Choose an item. |  |
| Which of the following are attributes of the students’ internships and/or cooperative learning opportunities?  | [ ] Well-defined [ ]  Has clear goals and objectives[ ]  Has a reasonable chance of completion in the available time[ ] Applies and develops an understanding of in-depth chemical concepts | [ ]  Uses a variety of methods and instrumentation[ ]  Develops student skills[ ]  Grounded in the chemical literature |
| Student outputs (Check all that apply) | [ ]  Journal articles[ ]  Internal written reports[ ]  Posters for external presentation | [ ]  Posters for internal presentation[ ]  Student evaluations[ ]  Other (specify): Click here to enter text.[ ]  Most projects have no outputs. |
| ***Student evaluators (Check all that apply)*** | [ ]  Institutional faculty[ ]  Institutional staff[ ]  Faculty at partnering institutions | [ ]  Industrial or governmental partners[ ]  Other (specify): Click here to enter text. [ ]  Students do not have formal evaluations. |
| ***Student compensation (Check all that apply)*** | [ ]  Academic credit[ ]  Financial compensation[ ]  Tuition reimbursement | [ ]  Other (specify): Click here to enter text.[ ]  Students receive no compensation. |
| ***Field(s) of study*** | Click here to enter text. |

Provide any additional comments on long-term projects.

 Click here to enter text.