

To Cheat or not to Cheat: Changing the Question

ACS Webinar, August 10, 2022

Read these reports and articles about academic dishonesty and integrity in chemistry and science:

- Leong, W. [What's ethics got to do with it?](#), *Chemical & Engineering News*, May 16, 2021.
- Lopez, K. M.; Solano, D. M. Ethics of cheating: Effects of the COVID-19 pandemic on academic honesty, in [International Ethics in Chemistry: Developing Common Values across Cultures](#), ACS Symposium Series, Vol 1410, 2021, p 63-77. DOI: [10.1021/bk-2021-1401.ch004](#)
- Mertz, L. [Academic integrity during the pandemic and beyond: Virtual classes? Online exams? Testing websites?](#) ACS Approval Program News webpage.
- Schultz, M.; Callahan, D. L. Perils and promise of online exams. *Nature Reviews Chem.* **2022**, *6*, 299–300. DOI: [10.1038/s41570-022-00385-7](#)
- Novick, P. A.; Lee, J.; Wei, S.; Mundorff, E. C.; Santangelo, J. R.; Sonbuchner, T. M. Maximizing academic integrity while minimizing stress in the virtual classroom. *J. Microbiology & Biology Educ.* **2022**, *23*(1). DOI: [10.1128/jmbe.00292-21](#)
- Lomness, A.; Lacey, S.; Brobbel, A.; Freeman, T. Seizing the opportunity: Collaborative creation of academic integrity and information literacy LMS modules for undergraduate chemistry. *J. Academic Librarianship* **2021**, *47*(3), 102328. DOI: [10.1016/j.acalib.2021.102328](#)

Visit these websites and read these reports and articles for more information about academic dishonesty and integrity in general and in other fields:

- Wiley. Instructors & Students. [Is student cheating on the rise? How you can discourage it in your classroom.](#)
- Bishop, M. J.; Cini, M. [Academic honesty and online education \(Part 2\); Strategies for supporting academic honesty in the digital age.](#) *The Evollution*. 2017/10/05.
- International Center for Academic Integrity (ICAI)
 - [The Fundamental Values of Academic Integrity](#), 3rd Edition, 2021.
 - [Integrity Matters Blog](#)
- Little, J.; Handel, S. [Student cheating and the fraud triangle](#), *Business Education Forum* **2016**, *70*(3), 37-44.
- Smith, K. J.; Emerson, D.; Mauldin, S. Online cheating at the intersection of the dark triad and fraud diamond. *J. Accounting Educ.* **2021**, *57*(2), 100753. DOI: [10.1016/j.jaccedu.2021.100753](#)

Using ACS resources

Refer to these articles on assessment approaches

- Dicks, A. P.; Moria, B.; Quinlan, K. B. Lessons Learned from the COVID-19 Crisis: Adjusting assessment approaches within introductory organic courses *J. Chem. Educ.* **2020**, *97*(9), 3406–3412. DOI: [10.1021/acs.jchemed.0c00529](#)
- Veale, C. G. Considering the impact of image-based search engines for online chemistry assessments. *J. Chem. Educ.* **2022**, *99*(3), 1497–1502. DOI: [10.1021/acs.jchemed.1c01075](#)
- Burrows, N. L.; Ouellet, J.; Joji, J.; Man, J. Alternative assessment to lab reports: A phenomenology study of undergraduate biochemistry students' perceptions of interview assessment. *J. Chem. Educ.* **2021**, *98*(5), 1518–1528. DOI: [10.1021/acs.jchemed.1c00150](#)

- Balasubramanian, B.; DeSantis, C.; Gulotta, M. Assessment à la mode: Implementing an adaptable large-scale multivariant online deferred-grade exam for virtual learning. *J. Chem. Educ.* **2020**, *97*(12), 4297–4302. DOI: [10.1021/acs.jchemed.0c00767](https://doi.org/10.1021/acs.jchemed.0c00767)
- Raje, S.; Stitzel, S. Strategies for effective assessments while ensuring academic integrity in general chemistry courses during COVID-19. *J. Chem. Educ.* **2020**, *97*(9), 3436–3440. DOI: [10.1021/acs.jchemed.0c00797](https://doi.org/10.1021/acs.jchemed.0c00797)

Refer to these articles on additional aspects of academic integrity

- Muñiz, M. N.; Altinis-Kiraz, C.; Emenike, M. E. Extending equity, access, and inclusion: An evolving multifaceted approach to transform a general chemistry course at a large, flagship, research institution. *J. Chem. Educ.* **2022**, *99*(1), 227–238. DOI: [10.1021/acs.jchemed.1c00387](https://doi.org/10.1021/acs.jchemed.1c00387)
- Gares, S. L.; Kariuki, J. K.; Rempel, B. P. Community matters: Student–instructor relationships foster student motivation and engagement in an emergency remote teaching environment. *J. Chem. Educ.* **2020**, *97*(9), 3332–3335. DOI: [10.1021/acs.jchemed.0c00635](https://doi.org/10.1021/acs.jchemed.0c00635)
- Jamieson, M. Keeping a learning community and academic integrity intact after a mid-term shift to online learning in chemical engineering design during the COVID-19 pandemic. *J. Chem. Educ.* **2020**, *97*(9), 2768–2772. DOI: [10.1021/acs.jchemed.0c00785](https://doi.org/10.1021/acs.jchemed.0c00785)

Visit these websites for resources and opportunities for providing ethics education

- [Case Studies for Ethics Education in Chemistry](#)
- [ACS Guidelines for Bachelor’s Degree Programs](#)
 - [Teaching Professional Ethics](#)
 - [Development of Student Skills in a Chemistry Curriculum](#)
- [ACS Guidelines for Chemistry in Two-Year College Programs](#)
 - [Development of Student Skills](#)
- [ACS Guidelines and Recommendations for Teaching Middle and High School Chemistry](#)
 - [Professional Responsibilities](#)

Visit these websites for resources and opportunities for using [Ethical & Professional Guidelines](#)

- [The Chemical Professional’s Code of Conduct](#)
- [Academic Professional Guidelines](#)
- [The Global Chemists’ Code of Conduct](#)
 - [GCCE Guide for Use by Academia](#)