

# Anti-cheating tier list bibliography and further reading

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This document contains readings in support of some of decisions made in the Anti-cheating approaches tier list presented at HERDSA 2022. It won't make much sense outside of that context.

The graphic is a tier list titled "Anti-cheating approaches tier list" with a Twitter handle "@phillipdawson" in the top right corner. It is organized into six horizontal rows, each representing a tier letter (S, A, B, C, D, F) in a colored square on the left. Each row contains several items, each with a small icon and a text label. The items are: S: Central teams (people at a table), Swiss cheese (cheese wedge), Amnesty/self report (yellow "SORRY!" speech bubble), Programmatic assessment (person at computer); A: Document properties (Word icon), Stylometry (line graph), Vivas (two people talking), Staff training (group of people), Tasks students want to do (hand holding a red heart); B: Open book (open book), Learning outcomes (bar chart), Content-matching (document with checkmark), Proctoring / lockdown (person at computer with a lock), Better exam design (document with pencil), F2F exams (classroom); C: Academic integrity modules (book with "Integrity" label), Legislation (gavel), Honour codes (document with checkmark), Reflective practice (person thinking); D: Authentic assessment (document with "AUTHENTIC" stamp), Site blocking (computer with a lock); F: Unsupervised MCQ (person at computer), Bans, e.g. essays (red prohibition sign), Reusing tasks (recycling symbol).

Tier	Item 1	Item 2	Item 3	Item 4	Item 5	Item 6
S	Central teams	Swiss cheese	Amnesty/self report	Programmatic assessment		
A	Document properties	Stylometry	Vivas	Staff training	Tasks students want to do	
B	Open book	Learning outcomes	Content-matching	Proctoring / lockdown	Better exam design	F2F exams
C	Academic integrity modules	Legislation	Honour codes	Reflective practice		
D	Authentic assessment	Site blocking				
F	Unsupervised MCQ	Bans, e.g. essays	Reusing tasks			

## S

### Programmatic assessment

Dawson, P. (2021). Structuring and designing assessment for security. In *Defending assessment security in a digital world: preventing e-cheating and supporting academic integrity in higher education* (pp. 128-140). Routledge.

### Swiss cheese model

Rundle, K., Curtis, G., & Clare, J. (2020). Why students choose not to cheat. In T. Bretag (Ed.), *A Research Agenda for Academic Integrity*. Edward Elgar Publishing.

### Centralised processes

There doesn't seem to be a literature around this. If you're aware of any, please send it to me.

### Student amnesty/self-report support

[UNSW Courageous Conversations](#)

## A

### Document properties

Johnson, C., & Davies, R. (2020). Using Digital Forensic Techniques to Identify Contract Cheating: A Case Study. *Journal of Academic Ethics*, 18(2), 105-113.

<https://doi.org/10.1007/s10805-019-09358-w>

Rogerson, A. M. (2017). Detecting contract cheating in essay and report submissions: process, patterns, clues and conversations. *International Journal for Educational Integrity*, 13(1), 10. <https://doi.org/10.1007/s40979-017-0021-6>

### Stylometrics

Dawson, P., Sutherland-Smith, W., & Ricksen, M. (2020). Can software improve marker accuracy at detecting contract cheating? A pilot study of the Turnitin authorship investigate alpha. *Assessment & Evaluation in Higher Education*, 45(4), 473-482.

<https://doi.org/10.1080/02602938.2019.1662884>

Juola, P. (2017). Detecting Contract Cheating via Stylometric Methods. *Plagiarism across Europe and Beyond*, 187-198.

### Vivas

I'm not aware of any literature around this – if you know of any, please send to me.

### Staff training

Dawson, P., & Sutherland-Smith, W. (2019). Can training improve marker accuracy at detecting contract cheating? A multi-disciplinary pre-post study. *Assessment & Evaluation in Higher Education*, 44(5), 715-725. <https://doi.org/10.1080/02602938.2018.1531109>

## Tasks students want to do

Bretag, T., Harper, R., Burton, M., Ellis, C., Newton, P., van Haeringen, K., Saddiqui, S., & Rozenberg, P. (2019). Contract cheating and assessment design: exploring the relationship. *Assessment & Evaluation in Higher Education*, 44(5), 676-691.  
<https://doi.org/10.1080/02602938.2018.1527892>

## B

### Open book

Dawson, P. (2021). Structuring and designing assessment for security. In *Defending assessment security in a digital world: preventing e-cheating and supporting academic integrity in higher education* (pp. 128-140). Routledge.

### Higher-order learning outcomes

Dawson, P. (2021). Assessment security. In *Defending assessment security in a digital world: preventing e-cheating and supporting academic integrity in higher education* (pp. 19-37). Routledge.

### Content-matching

Heckler, N. C., Rice, M., & Hobson Bryan, C. (2013). Turnitin Systems. *Journal of Research on Technology in Education*, 45(3), 229-248. <https://doi.org/10.1080/15391523.2013.10782604>  
Pandit, A. A., & Toksha, G. (2020). Review of Plagiarism Detection Technique in Source Code. In G. Singh Tomar, N. S. Chaudhari, J. L. V. Barbosa, & M. K. Aghwariya (Eds.), *International Conference on Intelligent Computing and Smart Communication 2019* (pp. 393-405). Springer Singapore.

### Remote proctoring / lockdown

Hylton, K., Levy, Y., & Dringus, L. P. (2016). Utilizing webcam-based proctoring to deter misconduct in online exams. *Computers & Education*, 92-93, 53-63.  
<https://doi.org/https://doi.org/10.1016/j.compedu.2015.10.002>  
Stapleton, P., & Blanchard, J. (2021). *Remote Proctoring: Expanding Reliability and Trust* Proceedings of the 52nd ACM Technical Symposium on Computer Science Education, Virtual Event, USA. <https://doi.org/10.1145/3408877.3439671>  
Logan, C. (2020). Refusal, Partnership, and Countering Educational Technology's Harms. *Hybrid Pedagogy*. <https://hybridpedagogy.org/refusal-partnership-countering-harms/>  
Woldeab, D., & Brothen, T. (2019). 21st Century assessment: Online proctoring, test anxiety, and student performance. *International Journal of E-Learning & Distance Education*, 34(1), 1-10.

### Better exam design

Tal, I. R., Akers, K. G., & Hodge, G. K. (2008). Effect of Paper Color and Question Order on Exam Performance. *Teaching of Psychology*, 35(1), 26-28.  
<https://doi.org/10.1080/00986280701818482>

Wesolowsky, G. O. (2000). Detecting excessive similarity in answers on multiple choice exams. *Journal of Applied Statistics*, 27(7), 909-921.

<https://doi.org/10.1080/02664760050120588>

Harpp, D. N., & Hogan, J. J. (1993). Crime in the classroom: Detection and prevention of cheating on multiple-choice exams. *Journal of Chemical Education*, 70(4), 306.

<https://doi.org/10.1021/ed070p306>

### In-person exams

McCabe, D. L. (2005). Cheating among college and university students: A North American perspective. *International Journal for Educational Integrity*, 1(1).

Harper, R., Bretag, T., & Rundle, K. (2021). Detecting contract cheating: examining the role of assessment type. *Higher Education Research & Development*, 40(2), 263-278.

<https://doi.org/10.1080/07294360.2020.1724899>

## C

### Academic integrity modules

Sefcik, L., Striepe, M., & Yorke, J. (2020). Mapping the landscape of academic integrity education programs: what approaches are effective? *Assessment & Evaluation in Higher Education*, 45(1), 30-43. <https://doi.org/10.1080/02602938.2019.1604942>

### Legislation

Awdry, R., Dawson, P., & Sutherland-Smith, W. (2021). Contract cheating: To legislate or not to legislate - is that the question? *Assessment & Evaluation in Higher Education*, 1-15.

<https://doi.org/10.1080/02602938.2021.1957773>

Amigud, A., & Dawson, P. (2020). The law and the outlaw: is legal prohibition a viable solution to the contract cheating problem? *Assessment & Evaluation in Higher Education*, 45(1), 98-108. <https://doi.org/10.1080/02602938.2019.1612851>

### Honour codes

McCabe, D. L., Treviño, L. K., & Butterfield, K. D. (2002). Honor Codes and Other Contextual Influences on Academic Integrity: A Replication and Extension to Modified Honor Code Settings. *Research in Higher Education*, 43(3), 357-378.

<https://doi.org/10.1023/A:1014893102151>

Yakovchuk, N., Badge, J., & Scott, J. (2011). Staff and student perspectives on the potential of honour codes in the UK *International Journal for Educational Integrity*, 7(2), 37-52.

### Reflective practice

Birden, H. H., & Usherwood, T. (2013). "They liked it if you said you cried": how medical students perceive the teaching of professionalism [<https://doi.org/10.5694/mja12.11827>]. *Medical Journal of Australia*, 199(6), 406-409.

<https://doi.org/https://doi.org/10.5694/mja12.11827>

Maloney, S., Tai, J. H.-M., Lo, K., Molloy, E., & Ilic, D. (2013). Honesty in critically reflective essays: an analysis of student practice. *Advances in Health Sciences Education*, 18(4), 617-626. <https://doi.org/10.1007/s10459-012-9399-3>

## D

### Authentic assessment

Ellis, C., van Haeringen, K., Harper, R., Bretag, T., Zucker, I., McBride, S., Rozenberg, P., Newton, P., & Saddiqui, S. (2019). Does authentic assessment assure academic integrity? Evidence from contract cheating data. *Higher Education Research & Development, 39*(3), 454-469. <https://doi.org/10.1080/07294360.2019.1680956>

### Site blocking

[How to Bypass a School Firewall: Tips and Warnings](#)

## F

### Unsupervised MCQs

Arnold, I. J. M. (2016). Cheating at online formative tests: Does it pay off? *The Internet and Higher Education, 29*, 98-106. <https://doi.org/https://doi.org/10.1016/j.iheduc.2016.02.001>

Trenholm, S. (2007). A Review of Cheating in Fully Asynchronous Online Courses: A Math or Fact-Based Course Perspective. *Journal of Educational Technology Systems, 35*(3), 281-300. <https://doi.org/10.2190/Y78L-H21X-241N-7Q02>

Also, see work on remote proctored exams; the non-proctored condition in most of these studies is unsupervised MCQs.

### Banning essays

See authentic assessment, and the website of any contract cheating business.

### Reusing same task

Look up the units/subjects/modules you teach on [Course Hero](#).