

The background features a dark blue gradient with technical graphics. On the left, there is a large circular scale with numerical markings from 150 to 260. To the right, there are several circular diagrams with arrows indicating clockwise rotation. The overall aesthetic is clean and professional, suggesting a focus on technology or data.

BEAT THE CHEAT

STRATEGIES TO SAFEGUARD YOUR COURSE
FROM ACADEMIC INTEGRITY VIOLATIONS

STEVIE ROCCO | ALLEN KIMEL | APRIL MILLET

ACADEMIC INTEGRITY

Prevention

- Limit opportunities for cheating

Policing

- Catching and punishing cheaters

5 TYPES OF CHEATING

- Plagiarism
- Fabrication
- Falsification
- Misrepresentation
- Misbehavior

The background is a dark blue gradient with a subtle pattern of small white dots. On the right side, there are several technical graphics: a large circular scale with degree markings from 0 to 210, a smaller circular scale with degree markings from 0 to 180, and two circular arrows indicating clockwise rotation. The text is centered on the left side of the image.

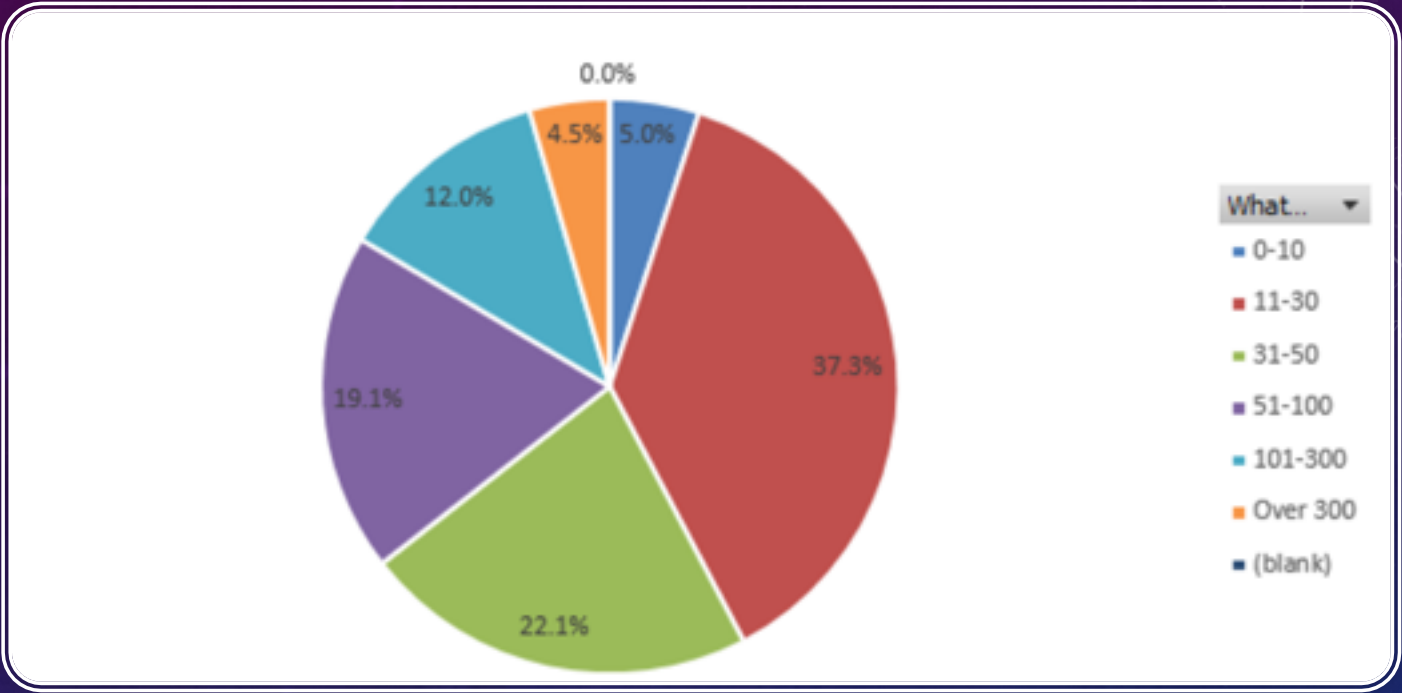
UNIVERSITY ACADEMIC INTEGRITY COMMITTEE

ACADEMIC INTEGRITY SURVEY – FALL 2016

- Sent to all colleges/campuses
- 1,705 Respondents from 24 locations
- 55% of respondents from UP
- Classes reported on: 1,939

ACADEMIC INTEGRITY SURVEY RESULTS

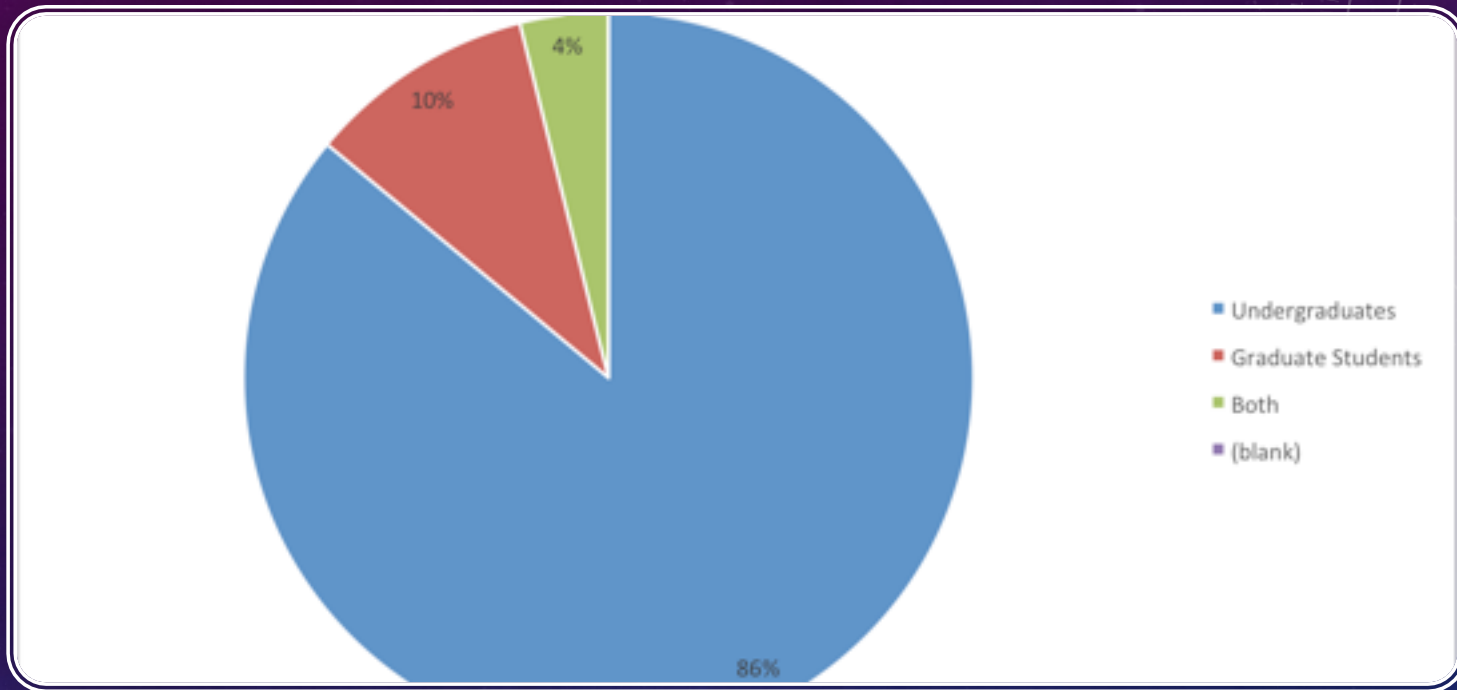




RESPONSES BY CLASS SIZE

59.4% Class sizes between 11-50

35.6% Class sizes over 50



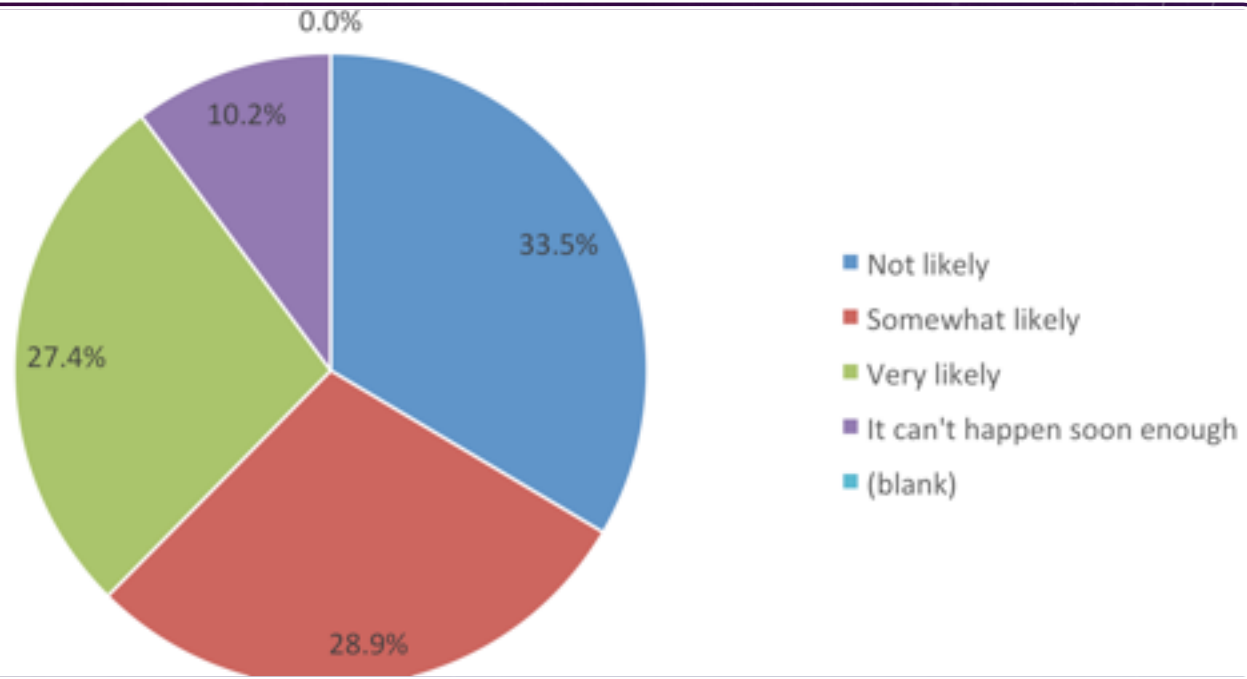
MAJORITY OF CLASSES UNDERGRADUATE

| Class Size | Number of responses | If only one test given per year, and class size were averaged, this many student exams could not be accommodated (Please note that the number 300 was used in calculating exams for the "Over 300" response) |
|-------------------|----------------------------|---|
| 0-10 | 2 | 10 |
| 11-30 | 7 | 140 |
| 31-50 | 19 | 760 |
| 51-100 | 23 | 1725 |
| 101-300 | 52 | 15600 |
| Over 300 | 38 | 7600 |
| TOTAL | 141 | 25835 |

Student exams not being served according to committee's calculations based on results

POLLOCK TESTING CENTER

Exams not being served



LIKELIHOOD OF TRYING A PROCTORING SYSTEM

| Class Size/Level of Concern | No worry | Slight worry | Moderate worry | Strong worry | Crippling terror | (blank) | Grand Total |
|-----------------------------|------------|--------------|----------------|--------------|------------------|-----------|-------------|
| 0-10 | 2% | 2% | 1% | 0% | 0% | 0% | 5% |
| 11-30 | 6% | 17% | 10% | 4% | 1% | 0% | 37% |
| 31-50 | 2% | 10% | 7% | 3% | 0% | 0% | 22% |
| 51-100 | 1% | 7% | 8% | 3% | 0% | 0% | 19% |
| 101-300 | 0% | 4% | 4% | 3% | 0% | 0% | 12% |
| Over 300 | 0% | 1% | 2% | 2% | 0% | 0% | 4% |
| (blank) | 0% | 0% | 0% | 0% | 0% | 0% | 0% |
| Grand Total | 12% | 40% | 32% | 15% | 2% | 0% | 100% |

CONCERN WITH AI BY CLASS SIZE

49% overall;

DISCIPLINE VS. CONCERN

% of Rate the extent to which you worry about students violating academic integrity in this course:

Column Labels No worry Slight worry Moderate worry Strong worry Crippling terror (blank) Grand Total

| Discipline/Level of Concern | No worry | Slight worry | Moderate worry | Strong worry | Crippling terror | (blank) | Grand Total |
|---|------------|--------------|----------------|--------------|------------------|-----------|-------------|
| Arts | 18% | 43% | 33% | 8% | 0% | 0% | 100% |
| Business | 13% | 43% | 25% | 17% | 2% | 0% | 100% |
| Education | 28% | 48% | 21% | 2% | 2% | 0% | 100% |
| Engineering | 13% | 34% | 34% | 17% | 2% | 0% | 100% |
| Formal Sciences (e.g., mathematics, computer science) | 11% | 38% | 29% | 21% | 1% | 0% | 100% |
| Humanities | 9% | 42% | 35% | 11% | 3% | 0% | 100% |
| Natural Sciences (e.g., biology, chemistry) | 10% | 37% | 33% | 19% | 1% | 0% | 100% |
| Professions (e.g., architecture, law, nursing) | 14% | 48% | 23% | 14% | 1% | 0% | 100% |
| Social Sciences (e.g., psychology, sociology) | 7% | 43% | 36% | 12% | 2% | 0% | 100% |
| Other (please list) | 12% | 41% | 31% | 14% | 1% | 0% | 100% |
| (blank) | 17% | 83% | 0% | 0% | 0% | 0% | 100% |
| Grand Total | 12% | 40% | 32% | 15% | 2% | 0% | 100% |

DISCIPLINE VS. CONFIDENCE IN ASSESSMENT STRATEGIES

Count of Rate your confidence that your assessment strategies help to prevent cheating in this course? Column Labels

| Discipline/confidence in assessment strategies | <input checked="" type="checkbox"/> Not at all confident | Slightly confident | Moderately confident | Very confident | I've never considered whether or not my strategies help to prevent cheating (blank) | Grand Total |
|---|--|--------------------|----------------------|----------------|---|---------------|
| Arts | 0.0% | 18.4% | 31.6% | 42.1% | 7.9% | 100.0% |
| Business | 5.7% | 11.4% | 38.6% | 43.6% | 0.7% | 100.0% |
| Education | 1.7% | 8.6% | 37.9% | 46.6% | 5.2% | 100.0% |
| Engineering | 3.8% | 12.2% | 51.2% | 30.5% | 2.3% | 100.0% |
| Formal Sciences (e.g., mathematics, computer science) | 2.8% | 12.8% | 50.4% | 31.2% | 2.8% | 100.0% |
| Humanities | 1.2% | 12.8% | 45.3% | 39.5% | 1.2% | 100.0% |
| Natural Sciences (e.g., biology, chemistry) | 4.0% | 14.9% | 49.1% | 30.9% | 1.1% | 100.0% |
| Professions (e.g., architecture, law, nursing) | 8.3% | 18.1% | 38.9% | 33.3% | 1.4% | 100.0% |
| Social Sciences (e.g., psychology, sociology) | 2.1% | 14.0% | 51.4% | 30.9% | 1.6% | 100.0% |
| Other (please list) | 3.8% | 10.0% | 47.7% | 34.6% | 3.8% | 100.0% |
| (blank) | 0.0% | 0.0% | 40.0% | 60.0% | 0.0% | 100.0% |
| Grand Total | 3.4% | 13.1% | 46.9% | 34.5% | 2.1% | 100.0% |

COMMITTEE RECOMMENDATIONS

1. University should adopt University-wide online proctoring system (enterprise level)
2. Broader dissemination of other tools instructors can use
3. Regular review of AI tools and dissemination to University faculty
4. Provide better guidance around “study sites”
5. Develop Syllabus statement and templates for removal of materials from said sites

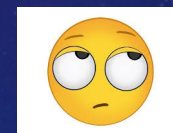
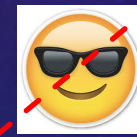
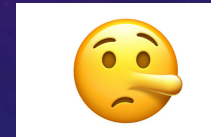
TOOLS AND SERVICES TO HELP

- Use [TurnItIn](#)
- Use [Moss](#) for computer code
- Use the [Testing Center](#) for [quizzes and exams](#)
- Monitor [Course Hero](#) and similar websites
- Preventing Academic Integrity Issues [website](#)
- Request a Learning Designer consultation

QUEST FOR RELIABLE STUDENT ASSESSMENT

- **Reality (lecture and online): any assessment not performed in front of the instructor and/or in a controlled environment is not an accurate assessment**
- **Discussion as faculty and data studies on HW show discrepancy**
- **Actions taken:**
 - **HW no more than 15% of final grade**
 - **More frequent exams/drop lowest grade**
 - **Use HW quizzes to assess effort**
 - **Include participation grade (5% typically)**
 - **Multiple versions of exams in-person**
 - **Question groups for exams online**

Student
HW
Avg.



Student
Exam
Avg.

PRACTICAL STRATEGIES

- Communication
- Research
- Design
- Tools

COMMUNICATION IS KEY

- Add a statement to your syllabus
- Require students to read and sign an AI quiz
- Set expectations early
- Remind students throughout the semester

WHAT RESEARCH SAYS REDUCES CHEATING

- Developing good rapport with students
- Linking Academic Integrity with Professional Integrity
- Using students intrinsic motivation (virtue integration)
- Reducing student test anxiety

PEDAGOGY AND DESIGN

- Use more authentic assessments
- Set achievable assignments
- Spread assignments out over the entire semester
- Change assessments out each semester
- Use peer review
- Provide detailed feedback to students
- Link objectives and assignments

CANVAS TACTICS

- Use randomization
- Require posting first before seeing others
- Avoid simplistic “Google-able” questions
- Show one question at a time and no answers
- Use tighter time limits
- Use algorithmic equations
- Use different data for different students
- Change out questions each semester
- Create question banks
- Use assessment [blueprinting](#)

ROWE, NEIL C., CHEATING IN ONLINE ASSESSMENT: BEYOND PLAGIARISM
ONLINE JOURNAL OF DISTANCE LEARNING ADMINISTRATION, VOLUME VII, NUMBER II, SUMMER 2004.

Table 1. Example calculation of the overlap of two randomly chosen student tests.

| Number of questions selected at random | Pool size | Average number of questions in common for two students |
|---|------------------|---|
| 5 | 10 | 2.5 |
| 10 | 20 | 5.0 |
| 20 | 40 | 10.0 |
| 30 | 60 | 15.0 |
| 40 | 80 | 20.0 |
| 5 | 15 | 1.7 |
| 10 | 30 | 3.3 |
| 20 | 60 | 6.7 |
| 30 | 90 | 10.0 |
| 40 | 120 | 13.3 |
| 5 | 25 | 1.0 |
| 10 | 50 | 2.0 |
| 20 | 100 | 4.0 |
| 30 | 150 | 6.0 |
| 40 | 200 | 8.0 |

Rowe, Neil C. Online Journal of Distance Learning Administration, Volume VII, Number II, Summer 2004

EMS RESOURCES

- [EMS Academic Integrity Information](#)
- [Academic Integrity Strategies](#)
- [About Academic Integrity](#)

SOME SOURCES

- [Dutton e-Education Institute](#) Faculty Development website
- [University of Regina](#): Strategies to Reduce Cheating
- [University of Central Oklahoma](#): Reduce cheating in online courses
- [Foothill College](#): Prevent Cheating
- [The Atlantic](#): How to stop cheating in college
- [Faculty Focus](#): Tips for reducing cheating in the college classroom
- [University of Central Florida](#): Cheating reduction strategies
- [University of California at Berkeley](#): Academic Integrity

QUESTIONS AND ANSWERS

The background features a dark blue gradient with a field of small white stars. On the right side, there is a large circular scale with numbers from 0 to 210 in increments of 10. Below it is a dashed circle with an arrow pointing clockwise. In the top left and bottom left corners, there are smaller circular elements, some with arrows, suggesting a technical or scientific theme.

The background is a dark blue gradient with a subtle pattern of small white stars. On the right side, there are several technical diagrams. One is a large circular gauge with a scale from 0 to 210 and a needle pointing to approximately 180. Another is a smaller circular diagram with a dashed outer ring and a solid inner ring. There are also some faint circular patterns in the top left and bottom left corners.

FOR MORE INFORMATION

EMAIL STEVIE ROCCO STEVIER@PSU.EDU