

Cyberethics: Promoting Responsible Use of Technology in the 21st Century Classroom



Impact on the K-16 Classroom

Davina Pruitt-Mentle

May 27, 2003



Cybercitizenship



- Character is what you do when no one is watching.
 - Cybercitizenship,
 - Cyberethics
 - Netiquette
- All refer to responsible cyber social behavior.



Cyberethics is Diverse



- Cybercrime
- Privacy
- Use and misuse
- Online safety
- Netiquette
- Copyright
- Intellectual property rights
- Plagiarism



Overview



This presentation is aimed at providing an overview of the current state of:

- **Plagiarism**
 - Strategies to Combat Electronic Plagiarism
 - Understanding and modeling proper copyright behavior
 - Explaining intellectual property rights as applied to digital and Internet media (papers, pictures, videos, music)
- **Promoting Cybercitizenship**
 - Classroom activities
 - Resources and how to use them



Plagiarism in the 21st Century



Paper Mills, Cybercheating, and Internet Detectives in the Electronic Age



What is Cheating or Plagiarism?



Stephen Wilhoit lists the following types of plagiarism:

- **Buying a paper** from a research service or term paper mill.
- **Turning in** another student's work.
- Turning in a paper a peer has **written for** the student.
- **Copying a paper** from a source text without proper acknowledgment.
- Copying materials from a source text, supplying proper documentation, but **leaving out** quotation marks.
- Paraphrasing materials from a source text **without appropriate documentation.**

Wilhoit, Stephen. "Helping Students Avoid Plagiarism." *College Teaching* 42 (Fall 1994): 161-164. In Hinchliffe, Lisa. "Cut-and-Paste Plagiarism: Preventing, Detecting, and Tracking Online Plagiarism." <http://alexia.lis.uiuc.edu/~janicke/plagiary.htm>. 25 Feb. 1999.



Statistics



- According to a 1998 survey by *Who's Who Among American High School Students*, four out of five college-bound high school students admit to cheating on schoolwork (~80%)
- In 2001, the same survey revealed 84%

See handout



Major Conclusions



- Cheating is widespread
- Students find it easy to rationalize cheating
- The Internet is raising new questions
- Students feel that many teachers ignore cheating, at least on occasion
- Students cheat for a variety of reasons

Source: Center for Academic Integrity study: Student Cheating in American High Schools.
Donald L. McCabe May 2001 <http://www.academicintegrity.org>



Plagiarism & The Internet



- 15% have submitted a paper obtained in large part from a term paper mill or website
- 52% have copied a few sentences from a website without citing the source
- 90% of the students using the Internet to plagiarize have also plagiarized from written sources. (The Web has ‘created’ few new cheaters - 6% of all students.)

Source: Center for Academic Integrity study: Student Cheating in American High Schools.
Donald L. McCabe May 2001 <http://www.academicintegrity.org>



Some Teachers Ignore Cheating



47% of students think teachers sometimes ignore cheating.

- The major reasons students think teachers ignore cheating are:
 - Don't want to deal with hassle (18%)
 - Don't care (11%)
 - Not worth trouble on small assignments (7%)

Source: Center for Academic Integrity study: Student Cheating in American High Schools. Donald L. McCabe May 2001 <http://www.academicintegrity.org>



Why Students Cheat

- Lazy/don't study/didn't prepare (32%)
- To pass/get good grades (29%)
- Pressures to succeed (12%)
- Don't know answers/understand (9%)
- Time pressure - too much work, etc. (5%)
- Other (13%)

Source: Center for Academic Integrity study: Student Cheating in American High Schools.
Donald L. McCabe May 2001 <http://www.academicintegrity.org>



Current State of Cheating: Why is this happening?



- **Margaret Fain and Peggy Bates' 8 common themes:**
 - Honesty and integrity have very little to do with the "real" world or school work.
 - An "education" doesn't connect with "gaining knowledge on your own"
 - Students come to school to graduate - "get a diploma". How they get this credential might be less important than simply getting it.
 - Many students cheat or plagiarize to maintain high GPAs - there is tremendous pressure from parents, college admissions, and corporate recruiters
 - Some think it is no longer "socially unacceptable".
 - Many think that anything and everything on the Internet is public domain.
 - Many do not know what constitutes plagiarism--they have not learned about plagiarism in high school.
 - Some students actually engage in unethical behavior out of self-defense -students in their classes are using it to excel, creating unfair competition

Source: *Current State of Cheating* Teaching Effectiveness Seminar: Coastal Carolina University, March 5, 1999 (Updated March 3, 2000, Revised March 26, 2001) Margaret Fain is Assistant Head of Public Services, and Peggy Bates is Reference Librarian at Kimbel Library, Coastal Carolina University, Conway, SC.
<http://www.coastal.edu/library/papermil.htm>



So if everyone is doing it why haven't more been caught?



- **"Who wants to sit around looking for websites trying to find out if a paper is plagiarized or not... pretty soon you're a private investigator."-- a Stanford University professor, from an article in TechWeb News.**
- **"[Plagiarism] is one of those areas in the academy that no one wants to talk about and is often rewarded by not addressing actively."-- an Associate VP of Student Life, as posted in The Chronicle of Higher Education's "Colloquy."**
- **"Too few universities are willing to back up their professors when they catch students cheating, according to academic observers. The schools are simply not willing to expend the effort required to get to the bottom of cheating cases"-- as stated by The National Center for Policy Analysis.**

Source: <http://www.Turnitin.com/>



Building Character: Introducing Cyber-Citizenship



- Take a pro-active approach
 - Become **aware and knowledgeable**
 - Stay Safe Online- National Cyber Security Alliance
 - Take the Test
 - Stay Safe Online Quiz
 - Define, explain, discuss, give examples and **MODEL**
- Develop curricula and activities that help empower students to take full advantage of IT while emphasizing critical thinking, character building and decision making skills related to responsible technology use

See handout



How Can We Help Prevent Plagiarism ?



- Be clear about cheating and plagiarism policies
 - **Define** what **plagiarism** is and isn't
 - Discuss plagiarism as a **moral and ethical issue**
 - Make students aware of what constitutes plagiarism, **polices** about the unethical behavior, and how **you** handle it (consequences and always follow through).
 - Discuss as a legal issue of **fair use and intellectual property**. Students need to know and understand copyright and intellectual property laws rather than – “Don’t do it because I told you not to do it”.

See handout



Present Examples



- Talk about past cases
 - From your classes
 - Examples of legal cases
 - Universities
 - Work related
 - K12



The Right Way

- Discuss Copyright and the Internet.
- Model how to document web pages
- Provide information on documenting materials from online sources
 - Show them how to **correctly cite electronic sources**.
 - Conduct **short activities and exercises** to practice
- Discuss the advantages and disadvantages **of the proper** use of electronic sources (up to date current news/need to check and verify sources)

See Project Nethics at the University of Maryland



Preventing Plagiarism



- **Demonstrate** how easy it is to **check paper mills and internet sources**
- Have students do a **similar exercise** as we do today
 - Find if someone has plagiarized by using the web
 - Download a paper from one of the paper mill sites and have students analyze it to see that these sites produce poor quality work in many cases
- Assign **current and local topics**
- Assign an initial research “short paper” on the topic of **ethics**, cybercheating, or cyberethics
- Be **specific** about the paper
 - Not just general statement “ a paper on the Civil war”
 - Include how many pages for each section
- **Change topics** from semester to semester or from class to class



Anti-plagiarism Activities



- Tie the topics into the **class experience**. Ask students to share their ideas for their paper as it is being written, rather than only at the end.
- Have writing assignments that have students **analyze classroom activities or discussions**, as well as, referenced sources
- Include a **section** in their paper that discusses their topic in light of what was covered in class.
- Ask students to **summarize main points** of their papers while in the research phase
 - As a warm up exercise
 - A quiz or part of a quiz
 - Bonus or extra credit points
 - Part of a test



Focus on the Research Process



- Structure the project so you **focus on** the process of writing.
- Allow **extended time** to work on the activity
 - Set up the project so that sections are worked on over the course of the semester.
 - Have different sections due at different times and provide feedback along the way.



Extended Time



- **Ask for several of the following to be turned in:**
 - An abstract about what they plan to write about
 - Sketch of brainstorming session
 - A paper outline
 - Multiple drafts
 - A topic proposal for their paper
 - Multiple “new vocabulary” and annotated bibliographies with reading reflections
 - A bibliography that includes multiple sources and types of sources (i.e. 3 books, 2 journal articles and 4 websources).
 - Rough drafts and/or working notes.
 - All working drafts turned in with the final paper.



Research is a Process



- As part of the paper or as a separate assignment, have students reflect personally on the topic they are writing on or on the process of doing research and writing.
- Make sure students know that you read carefully the papers that are handed in.



How To Detect Plagiarism



- Being familiar with a **student's style** of writing, grammar, and vocabulary makes it easier to determine if they are the writer of the paper.
- A **shift** between plagiarized material and student work (**writing style**)
- **Unusual formatting** or formatting that does not match what you specified
- Website **printout page numbers or dates, grayed out letters** or unusual use of upper/lower case and capitalization.
- **Unexplained jargon** or advanced vocabulary and/or sentence structure.
- **Unable to explain** an obscure point



Detecting Plagiarized Papers



1. Writing style, language, vocabulary, tone, grammar, etc. is above or below what the student usually produces. It doesn't sound like the student.
2. Sections or sentences do not relate to the overall content of the paper. Students may "personalize" a paper by adding a paragraph that ties the paper to the class assignment.
3. Look for strange text at the top or bottom of printed pages.
4. Look for gray letters in the text, often an indication that the page was downloaded from the web, since color letters on a screen show up gray in a printout.



Detecting Plagiarized Papers

5. Web addresses left at the top or bottom of the page. Many free essays have a tag line at the end of the essay that students often miss.
6. Strange or poor layout. Papers that have been downloaded and re-printed often have page numbers, headings, or spacing that just don't look right.
7. References to graphs, charts, or accompanying material that isn't there.
8. References to professors, classes or class numbers that are not taught at your school
9. Citations are to materials out of date, out of the country or not owned by your local (school) library



Detecting Plagiarized Papers

10. Web sites listed in citations are inactive.
11. All citations are to materials that are older than five years.
12. References are made to historical persons or events in the current sense.
13. Students can not identify citations or provide copies of the cited material.
14. Students can not summarize the main points of the paper or answer questions about specific sections of the paper.
15. When provided with a page from their paper that has words or passages removed, students can not fill in the blanks with the missing words or with reasonable synonyms.



Internet Detective



- You can locate the original papers or sources on the Internet using a variety of techniques
 - Search for the title of paper
 - Search for the title using quotation marks “ ” If the student hasn't had the foresight to change the title, you may find it listed on a term paper site.
 - Identify a unique string of words in the paper



Internet Detective



- Check for original reference identification clues.
 - Follow up with a web search for a personal homepage and the website(s) of the organization(s) with which the referenced author is affiliated.
- Look at original text sources listed in the bibliography.



Internet Detective



- Use a variety of search engines
 - Yahoo
 - Google
 - AskJeeves
 - DogPile
 - NorthernLight
 - Hotbot
 - Infoseek
- Search for the phrase using quotes " " and + (Boolean).
 - For example: +austen +"fair share of monsters" turns up only one paper

Utilize a plagiarism detection site



Try This: Exercise 1



Getting a Free Paper

<http://www.4freeessays.com/> Search or History → American History → Aztecs
 Search Science and Technology → Chemistry → Antimony
 Search Science and Technology → Carbon

You must pick a topic of interest related to the Civil War. You decide to write on African Americans during the civil war
<http://www.123Student.com/> Click free essays → American History → Several war and one specific to your topic

or Causes of the Civil War
<http://essaysfree.com/> Click on History free essays → American → two on civil war
<http://AllFreeEssays.com/> Search for civil war

Introduction
 Many communities throughout the US are experiencing a large influx of Central American immigrants. Langley Park, Maryland is typical of the pockets that are formed by the new arrivals. In the Langley Park community, the Latino population increased from 6,956 to 10,294 over the 1990s (Barrio de Langley Park Newsletter, 2001). Community members of Latino background now account for 60% of the population while in 1990 they were only 40% (US Census, 2000). As immigrants move into Langley Park, both the formal and informal educational systems are faced with the task of preparing children and young adults to succeed in an increasingly complex and competitive society where proficiency in technology is becoming a requirement for success.

The study took place in the context of a larger ethnographic project which began in 2000 in one of the urban areas of Maryland surrounding the District of Columbia. Here cases of nine Central American female immigrants who have chosen to take technology related training are presented in order to reveal their behaviors, attitudes, and

...in, 1999; 5
 ...understanding users is critical to
 ...ologies just described are not mutually exclusive.
 ...combine contextual inquiry with participatory design and usability
 ...critical that HCI students be exposed to many different testing methodologies. It
 ...understood however, that users can not generally be expected to be designers. Users can
 ...point out important technology needs, questions, and problems, but it is the designer that
 ...must use this information creatively. As it has been said by the Director of Xerox Palo Alto
 Research Center (PARC), John Seely Brown, "...I think our ability to become active
 listeners to the world, to be in concert to the world, is equally important to being great
 scientists or designers" (Rheinfrank, 1995, p. 46).

2.6.2 A Team Design Approach

[See Handout](#)



Other Web Sources



- On-line newspapers, journals and magazines
- Academic web sites like NIH, ISTE, NASA, DoEd and universities post technical papers.
- Conference proceedings
- Student work (papers, essays, examines and projects) are added to personal web pages, teacher sites and/or school websites
- Try searching for: "term paper", "research assistance", "model papers", "research papers", or "technical papers" will retrieve both term paper sites and web pages with papers on them.

[See Handout](#)



Paper Mills in 2002

- Term Paper Mills have been available on the Internet since 1996 (Margaret Fain and Peggy Bates, 2001)
- They are global. Many provide pirate papers from abroad.
 - The Student Essay Bank in the U.K.
 - CheatWeb in Germany
 - A recent search of Yahoo! revealed at least 37 sites in Asia that provided free or low cost papers for students.



Paper Mills in 2002



- Referred to as paper mills because these sites are in the business of providing pre-written research papers.
- Most sites contain disclaimers telling potential buyers not to submit these papers for a grade, but students can and do turn in these papers as their own.
 - **All graphics, text information, designs, logos, & banners on the website are copyrighted © 2001 by 007termpapers.com. All term papers, essays, theses, dissertations, and research papers sold via 007termpapers.com are the property of the corporation and its contracted writers. Our work is designed only to assist students in the preparation of their own work and is never to be used as a substitute. Students who use our service are responsible not only for writing their own papers, but also for citing 007termpapers.com as a source when doing so. Instructions for proper citation of our company are available upon request by writing to citations@007termpapers.com**



Digital Paper Mills





What do you get?



- Free papers-click on the site and download the paper.
- Free papers but registration required-ask for personal information
- “Exchange Sites” - you must submit a paper to get a "free" paper.
- Many have a membership fee that allows unlimited access.
- Most charge per page. Bill your credit card.
- Delivery usually by email.
- For extra charge you can have them “special order”- usually 4 days
- They run sales and summer blowout specials



Try This: Exercise 2



Getting a Free Paper

<http://www.4freeessays.com/> Search or History → American History → Aztecs
 Search Science and Technology → Chemistry → Antimony
 Search Science and Technology → Carbon

You must pick a topic of interest related to the Civil War. You decide to write on African Americans during the civil war
<http://www.123Student.com/> Click free essays → American History → Several
 war and one specific to your topic

or Causes of the Civil War
<http://essaysfree.com/>
 Click on History free essays → American → two on civil war

<http://AllFreeEssays.com/>
 Search for civil war

Introduction
 Many communities throughout the US are experiencing a large influx of Central American immigrants. Langley Park, Maryland is typical of the pockets that are formed by the new arrivals. In the Langley Park community, the Latino population increased from 6,956 to 10,204 over the 1990s (Barrio de Langley Park Newsletter, 2001). Community members of Latino background now account for 60% of the population while in 1990 they were only 40% (US Census, 2000). As immigrants move into Langley Park, both the formal and informal educational systems are faced with the task of preparing children and young adults to succeed in an increasingly complex and competitive society where proficiency in technology is becoming a requirement for success.

The study took place in the context of a larger ethnographic project which began in 2000 in one of the urban areas of Maryland surrounding the District of Columbia. Here cases of nine Central American female immigrants who have chosen to take advantage of technology related training are presented in order to reveal their behaviors, attitudes, and

... 1999: 5
 ... understanding users is critical to f
 ... strategies just described are not mutually exclusive.
 ... combine contextual inquiry with participatory design and usability
 ... critical that HCI students be exposed to many different testing methodologies. It
 ... understood however, that users can not generally be expected to be designers. Users can
 ... point out important technology needs, questions, and problems, but it is the designer that
 ... must use this information creatively. As it has been said by the Director of Xerox Palo Alto
 ... Research Center (PARC), John Seely Brown, "...I think our ability to become active
 ... listeners to the world, to be in concert to the world, is equally important to being great
 ... scientists or designers" (Rheinfrank, 1995, p. 46).

2.6.2 A Team Design Approach

[See Handout](#)



Problems?

- **What are students really getting?**
 - No guarantee of quality or currency.
 - Papers that are dated and not reflective of current events and trends.
 - Substandard writing and research.
- See William McHenry's "**Reflections on the Internet Paper Mills**" for a more detailed discussion of prices and quality.
(<http://georgetown.edu/honor/papermill.html>)



Plagiarism Detection Sites



- Besides searching the web, there are Plagiarism detection sites available
- Evaluate each service before using them.
 - Take advantage of free trials and read the fine print.
 - When evaluating services, take a look at Andy Denhart's article from Salon, "The Web's plagiarism police" which covers some of the pitfalls of using plagiarism verification sites.
(<http://www.salon.com/tech/feature/1999/06/14/plagiarism/print.html>)

Detection Sites



Try This: Exercise 3

Getting a Free Paper

<http://www.4freeessays.com/> Search... or History→American History→Aztecs
 Search Science and Technology→Chemistry→Antimony
 Search Science and Technology→Carbon

You must pick a topic of interest related to the Civil War. You decide to write on African Americans during the civil war
<http://www.123Student.com/> Click free essays→American History→Several war and one specific to your topic

or Causes of the Civil War
<http://essaysfree.com/>
 Click on History free essays → American → two on civil war

<http://AllFreeEssays.com/>
 Search for civil war

Introduction
 Many communities throughout the US are experiencing a large influx of Central American immigrants. Langley Park, Maryland is typical of the pockets that are formed by the new arrivals. In the Langley Park community, the Latino population increased from 6,956 to 10,294 over the 1990s (Barrio de Langley Park Newsletter, 2001). Community members of Latino background now account for 60% of the population while in 1990 they were only 40% (US Census, 2000). As immigrants move into Langley Park, both the formal and informal educational systems are faced with the task of preparing children and young adults to succeed in an increasingly complex and competitive society where proficiency in technology is becoming a requirement for success.

The study took place in the context of a larger ethnographic project which began in 2000 in one of the urban areas of Maryland surrounding the District of Columbia. Here cases of nine Central American female immigrants who have chosen to take technology related training are presented in order to reveal their behaviors, attitudes, and

...an, 1999: 5
 ...understanding users is critical to f
 ...ologies just described are not mutually exclusive.
 combine contextual inquiry with participatory design and usability tes
 critical that HCI students be exposed to many different testing methodologies. It
 understood however, that users can not generally be expected to be designers. Users can
 point out important technology needs, questions, and problems, but it is the designer that
 must use this information creatively. As it has been said by the Director of Xerox Palo Alto
 Research Center (PARC), John Seely Brown, "...I think our ability to become active
 listeners to the world, to be in concert to the world, is equally important to being great
 scientists or designers" (Rheinfrank, 1995, p. 46).

2.6.2 A Team Design Approach

[See Handout](#)



Conclusion



- Technology has enabled new forms of plagiarism
- Technology has also provided means for educators to more easily detect plagiarism
- Plagiarism is minimized by knowledge
 - Ethical issues
 - Ease of detection



Promoting Cybercitizenship



- **Classroom activities**
 - Lesson plan:
<http://www.amphi.com/~technology/standards/lessons/crockett3.html>
- **Resources and how to use them**
 - Examples of how to create a cyberethics lesson plans:
 - <http://www.fcps.k12.va.us/DeerParkES/kids/CyberSafety/index.htm>
 - Online interactive resources to have students try out
 - <http://www.cybercitizenship.org/4kids/4kids.html>
 - Resources to have students check out
 - <http://www.staysafeonline.info/secsites.adp>
 - Safety course that your students could do
 - <http://www.staysafeonline.info/enroll.adp>
 - *Tech Talk* online video and audio that talks about various resources and topics
 - <http://www.staysafeonline.info/curriculum.adp>



Davina Pruitt-Mentle
Educational Technology Outreach
College of Education
University of Maryland

301 405 8202

dp151@umail.umd.edu



Don't Forget

2003 Cyberethics Seminar