The Best of Both Worlds:
Creating Teaching Moments in a Blended Learning Environment
Nancy Pearl
LIBRARIAN
ACTION FIGURE

“...The role of a librarian is to make sense of the world of information. If that’s not a qualification for superhero-dom, what is?” — Nancy Pearl

With Amazing push-button Shushing Action!

plus BONUS Trading Card & Bookmarks

WARNING: CHOKING HAZARD. SMALL PARTS. NOT SUITABLE FOR CHILDREN UNDER 3.
Introduction

Active Learning:
• Learners’ autonomy in learning process
• Learners are challenged mentally
(Simons et al., 2000, p. 21)

Blended Learning:
• Blender analogy
• A mix of e-learning and traditional forms of learning (f2f)
• Online & classroom
• Synchronous & asynchronous
(Thorne, 2003, p. 17)
BIOLOGY 1F90 Overview:

• Over 500 students
• 15+ Teaching Assistants & 1 Senior Lab Instructor
• 3 in-class 2hr sessions per day in library computer lab for 2 weeks
• Quiz-based format in Sakai (LMS)
  • 13-15 questions (20 marks)
  • Topics covered: Biology resources, Refworks, Citations, Web evaluation
• Sessions are in September & April
Now go back to the library home page and drop down the Research menu. This time select Databases. The library has purchased access to more than 400 databases. They are useful for finding popular and scholarly articles on every topic. For this question use the database called Academic Search Premier. Academic Search Premier covers many disciplines and is often a good place to start looking for articles. Beware - it indexes scholarly journal articles and magazines.

a) How many articles has Dr. Hunter, a professor at Brock University, authored in this database? Hint: Try using the keyword Diptera (which is the scientific name for flies).
b) How many different ways does Dr. Hunter’s name appear?

- A. a) Approximately 315.
  b) 2; Hunter, F. F.; Hunter Fiona;
- B. a) Approximately 26.
  b) 1; Hunter Fiona;
- C. a) Approximately 6.
  b) 3; Hunter, F. F.; Hunter, Fiona F.; Hunter Fiona;
- D. a) Approximately 2.
  b) 2; Hunter, Fiona F.; Hunter Fiona;

Submitted Assessments

You have completed the assessments listed below. If an assessment is ready for review, you may click on its title to see feedback. You may also click the Statistics link (if available) to see assessment statistics.

View All Assessments/Score

<table>
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<th>Title</th>
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<th>Time</th>
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<td>A-OLD BIO_LF90 Fall 2010</td>
<td>Immediate</td>
<td>1</td>
<td>n/a</td>
<td>2011-May-13 03:44 PM</td>
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* This assessment allows multiple submissions and has been configured to record the highest score which is the one listed here.
The amount of material covered was suited to the time allotted (2 hrs).
I felt comfortable asking questions when I needed help

- **Strongly Agree**: 58%
- **Agree**: 31%
- **Neutral**: 9%
- **Disagree**: 1%
- **Strongly Disagree**: 1%
The information I learned in this session will help me look for information.
BIOL1F90 students’ working habits and preferences

- On my own: 30% (During the lab), 29% (Preference)
- With one other student: 48% (During the lab), 46% (Preference)
- In a group: 22% (During the lab), 25% (Preference)
The level of instruction was:

- Too difficult: 4%
- About right: 93%
- Too elementary: 3%
Winter 2011
Question 3 of 13
Find the February 2010 issue of TSCI’s newsletter under the ‘News’ tab. Recent Publications are listed on the right. This would be a good way to track down cutting-edge research from this initiative.
Listed in the Recent Publications is an article with the first author Beneveniste, P. Search for this article using Brock’s library resources.

Can you find the title of Figure 4 for this article?

*Click on either links below if you need tips on searching for an article.

Youtube video: Click here

[F] Citation Hunt Document.doc 457 KB

○ A. No, this article can not be found in Brock’s Library resources.
○ B. Yes, it is "Clonal Reconstitutions from Single RKSL Cells"
○ C. Yes, it is "Expression of a2 Integrin/CD49b Resolves RKSL Cells with Distinct Biological Properties."
○ D. Yes, it is "Intermediate-Term Hematopoietic Stem Cells"

Reset Selection

Submitted Assessments
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* This assessment allows multiple submissions and has been configured to record the highest score which is the one listed here.
BIOL1F90 - What is peer review?

The researcher writes a paper including their findings and references from other scholarly works.

Question 3 Using the Library Catalogue

James A. Gibson Library

Catalogue
Databases
Research Guides by Program
E-books
A-Z List of e-Journals
BookWorks
When you conduct research on your own, where do you start?

- Library Resources: 50%
- Google Scholar: 70%
- Ask a Friend: 10%
- Ask a Professor or TA: 20%
What resources were most helpful in understanding concepts?

<table>
<thead>
<tr>
<th>Resource</th>
<th>Low Ranking</th>
<th>Med Ranking</th>
<th>High Ranking</th>
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</thead>
<tbody>
<tr>
<td>Online guides with images</td>
<td>6%</td>
<td>23%</td>
<td>70%</td>
</tr>
<tr>
<td>Videos with images and voice over</td>
<td>7%</td>
<td>37%</td>
<td>57%</td>
</tr>
<tr>
<td>Live video</td>
<td>10%</td>
<td>33%</td>
<td>57%</td>
</tr>
<tr>
<td>Text only</td>
<td>17%</td>
<td>33%</td>
<td>50%</td>
</tr>
<tr>
<td>Asking TA/Librarian</td>
<td>26%</td>
<td>37%</td>
<td>47%</td>
</tr>
<tr>
<td>Other</td>
<td>27%</td>
<td>17%</td>
<td>57%</td>
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</table>
Learning environment that supports autonomy:

• Librarians are present for questions (synchronous)

• Resources are embedded (PDF guides/Youtube OR Jing videos)

• Encouraged to work in groups
<table>
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<th>Learning</th>
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<td>Competitive</td>
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<tr>
<td>Formal Authority</td>
<td>Dependent</td>
</tr>
<tr>
<td>Personal Model</td>
<td>Participant</td>
</tr>
<tr>
<td>Facilitator</td>
<td>Independent</td>
</tr>
<tr>
<td>Delegator</td>
<td>Collaborative</td>
</tr>
<tr>
<td></td>
<td>Avoidant</td>
</tr>
<tr>
<td>Teaching</td>
<td>Learning</td>
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| Expert    | Competitive:  
• Likes to receive recognition for achievement  
Dependent:  
• Shows little intellectual curiosity and requires authority figures | • LMS based quiz that provides grades  
• Librarians and TAs present to answer questions |
| Facilitator | Participant:  
• Enjoys taking part in activities  
Independent:  
• Prefers to learn the content alone | • Quiz based format with resources  
• Resource support embedded in quiz |
| Delegator  | Collaborative:  
• Students who learn by sharing ideas and talents  
Avoidant:  
• Uninterested and overwhelmed easily by classrooms | • Students are allowed to work together  
• Students are provided 2-3 weeks to complete quiz and ask questions via e-mail |
Implications

Blended learning environments are most effective:

• In smaller groups (max. 30 students)
• Requires enough librarians to staff for multiple sessions
• Variation in media to address different learning styles
• Encourage group work (social learning)

Challenges to consider:

• Power outage
• Non-tech savvy students
• Cheating
References


Note: Slides 2, 12, 17, 26 used clipart provided by Microsoft Office 2010
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