2004 UWEB REU
Communications Workshop

Introduction
Jennifer Patterson
June 16, 2004
Course Info

- Class Meeting times and locations
  - Wednesdays June 16 - August 4, 11AM-12PM, Bagley 405
  - August 11 and 12, 9AM-12PM, Balmer 309
  - August 19, 10AM, SCC 303

- Instructor: Jennifer Patterson
  - Office: Bagley 425/411
  - Phone: (206) 685-3949
  - Email: jp98@u.washington.edu
  - Office Hours: Wednesdays, 12-1PM
Class Website

- TBA
- Lectures and assignments will be posted weekly
  - Please print out and bring to class
- Additional resources for each topic will be posted
Objectives

REU Program

- Write a journal article (JURIBE)
- Prepare a scientific poster (poster session)
- Orally present results (final presentation)

Communications Workshop

- Prepare drafts of paper
- Peer review/editing
- Organize poster
- Present/defend poster
- Prepare slides
- Practice presenting
Significance

Effective communication skills are vitally important to a scientist’s career

- **Academia**
  - Scientific meetings (posters, talks), job interviews, teaching/mentoring, seminars, journal clubs, lab meetings

- **Industry**
  - Job interviews, managing employees, inter-office memos, client meetings, venture capital/entrepreneurship
To Communicate Well

- Be prepared
  - Know format
  - Know audience
    - Highly technical in your field (i.e. specialized scientific conference)
    - Non-scientific (i.e. an investor)
- Reflect → Visualize → Convey
- Don’t forget to proofread!
<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>June 16</td>
<td>11AM</td>
<td>Lecture: <em>Introduction</em></td>
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<tr>
<td>June 23</td>
<td>11AM</td>
<td>Lecture: <em>Presenting a scientific talk</em></td>
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<td>June 30</td>
<td>11AM</td>
<td>Student practice presentations</td>
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<tr>
<td>July 7</td>
<td>11AM</td>
<td>Student practice presentations</td>
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<td>July 14</td>
<td>11AM</td>
<td>Lecture: <em>Preparing a scientific poster presentation</em></td>
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<tr>
<td>July 21</td>
<td>11AM</td>
<td>Lecture: <em>Writing a scientific research article</em></td>
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<td>July 28</td>
<td>11AM</td>
<td>Lecture: <em>Reviewing scientific papers</em></td>
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<td>August 4</td>
<td>11AM</td>
<td>Peer review of papers</td>
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<td>August 11</td>
<td>9AM</td>
<td>Final presentations</td>
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<tr>
<td>August 12</td>
<td>9AM</td>
<td>Final presentations</td>
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<tr>
<td>August 19</td>
<td>10AM</td>
<td>Poster session</td>
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## Assignments

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<thead>
<tr>
<th>Assignment</th>
<th>Due Date</th>
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<tr>
<td>Individual assessment</td>
<td>June 16 (end of class)</td>
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<tr>
<td>5 minute practice presentation (introduction and methods)</td>
<td>June 30 or July 7</td>
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<tr>
<td>Draft layout of poster</td>
<td>July 21</td>
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<tr>
<td>First draft of paper (introduction and methods)</td>
<td>August 4</td>
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<tr>
<td>Rough draft of paper (to instructor)</td>
<td>August 11</td>
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<td>Final presentation</td>
<td>August 11 or August 12</td>
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<td>Poster</td>
<td>August 19</td>
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<td>Final paper (to Fanaye Turner)</td>
<td>August 20</td>
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Getting Started

- Talk to your mentor
  - Take notes and then write up in your own words
- Begin reading - background and methods
  - Start with your mentor
  - Why? What’s known? What’s not known?
- Ask questions
  - PI, mentor, other students/post-docs in lab
- Get your hands dirty
  - Start experiments, get familiar with lab
  - Keep a good lab notebook
- Mentally organize and begin writing
  - Learn software packages
Library Information

- UW Libraries Home Page
  - http://www.lib.washington.edu/

- HealthLinks
  - http://healthlinks.washington.edu/

- Engineering Library
- Chemistry Library
  - Chem Library basement

- Health Sciences Library
  - HSB 2nd floor T-wing

http://www.lib.washington.edu/about/bookdrops.html
Electronic Journals

http://www.lib.washington.edu/types/ejournals/

- Most major journals
  - Available since mid-late 1990s
- Retrieve, view, and print .pdf articles
  - Adobe Acrobat or Acrobat Reader
- Direct links to most recent articles (via Medline)
Database Searching

- UW Databases

- UW Top 25 databases

- Medline
  - >4,000 biomedical journals, >14 million citations (1950s on)

- Web of Science Citation Databases

- Current Contents
  - >7,000 journals; sciences, social sciences, arts & humanities
  - Within last 2-3 years
Biomaterials Journals

- Journal of Undergraduate Research in Bioengineering (JURIBE)
- Journal of Biomaterials Research
  - Part B: Applied Biomaterials
- Biomaterials
- Journal of Biomaterials Applications
- General (biology/bioengineering)
  - Science
  - Nature
  - Proceedings of the National Academy of Science (PNAS)
Poster Printing

- Health Sciences Photography and Digital Imaging
  - [http://depts.washington.edu/hsasf/photo/posters.html](http://depts.washington.edu/hsasf/photo/posters.html)
- Printed as one continuous sheet
  - Up to 58” wide x 20’ long
- Prepare in Powerpoint
  - Also can use Freehand, Illustrator, Pagemaker, Photoshop
- Charge to budget number
- Print a preview
- 24-48 hours turnaround time