

# Writing a Scientific Research Paper

## Writing Resources

Besides the information noted in your course materials and this handout, other writing resources are available:

- *The Mayfield Handbook of Technical and Scientific Writing* and other on-line resources are available at <<http://web.mit.edu/uaa/www/writinglinks>>.
- The Writing and Communication Center <<http://web.mit.edu/writing>> is located in 14N-317, x3-3090.
- IEEE website: <http://standards.ieee.org/guides/style/index.html>

## Standard Scientific Research Paper Components

Scientific papers generally follow a conventional format that includes a title, an abstract, a reference (or Literature Cited) section and the components of the IMRAD structure:

### The IMRAD structure

Introduction	answers "why?"
Methods	answers "when, where, how, how much?"
Results	answers "what?"
And	
Discussion	answers "so what?"

## Writing Process

### Sample Writing Process

Prewriting	<ul style="list-style-type: none"><li>• Make notes, scribble ideas; start generating text, drawing figures, sketching out presentation ideas.</li><li>• Ignore neatness, spelling, and sentence structure--get the ideas down.</li><li>• Analyze audience and purpose to focus your writing.</li></ul>
Writing	<ul style="list-style-type: none"><li>• Start with whatever section is easiest to write.</li><li>• Skip around to different sections as needed.</li><li>• Keep writing.</li></ul>
Revision	<ul style="list-style-type: none"><li>• Work on content first, then structure, then style.</li><li>• Keep focused on your main purpose: communicating, reasoning, presenting clearly.</li><li>• Get feedback.</li><li>• Circle back to prewriting as needed.</li></ul>
Editing	<ul style="list-style-type: none"><li>• Check all data for accuracy.</li><li>• Review for grammatical, mechanical, and usage errors.</li></ul>
Proofread	<ul style="list-style-type: none"><li>• Print and read your report again. Often we don't see errors on-line as easily as we do on a hard copy.</li></ul>

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**Mark Steyvers**



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