PHY1600S

PHY1600S Effective Communication for Physicists Prof. Tony Key

I. INTRODUCTIONS **General - Names**

II. ABOUT THE COURSE Course Design, Grading, Assignments, Texts, etc.

III. A QUESTIONNAIRE

IV ASSIGNMENT ESSENTIALS

GRADING For a Pass grade -

Attendance Full attendance at a minimum of 10 of our 11 sessions

> Weekly in-class Oral Presentations Hot Topic : Joke : Extemp

Assignments Submission of at least 8 of 10 assignments ?One formal oral presentation?

II. ABOUT THE COURSE

TIMES Tuesdays, here 11:10 SHARP to 1 pm

A TYPICAL CLASS Short Oral Presentations by you My Comments on Assignments **Class Exercise** More Oral Presentations (you or me)

ASSIGNMENTS Written - short, 600 word essays Short Oral - Hot Topic, Joke, Extemp Oral – 10 minute presentations

II. ABOUT THE COURSE

PHY1600S

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Oral Assignments Weekly - 2-5 minutes each

> Hot topic Joke Extemp

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Written Assignments

(email to me in Word, - e.g. joe1.doc, joe2.doc ...)

Deadlines for Written Assignments 1st deadline – following Thursday, midnight (draft to Reading Partner) 2nd deadline – following Friday, midnight (return Reading Partner's draft) 3rd deadline - following Sunday, 9 pm (final draft to me (Prompt, detailed comments, suggestions) 4th deadline - following Tuesday, 11

(No guarantee of comments, etc.) Missed 4th deadline, no credit!

Oral Assignment ? 10 minutes - Once per course ?

Formal In-Class Presentation

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GENERAL

email list will be set up for communication

Choose a Reading Partner for each written assignment

Assignments will be posted on the Web site ... as will many useful links, including ... model assignment from former students

Texts	PHY1600S
See List provided on	
http://www.physics.utoronto.ca/~key/PHY1600/20	12

Teaching (General): ► ***Wilbert McKeachie, *Teaching Tips*, 9th Ed.,(Heath and Co.,1994)

Physics Teaching: ► Arnold B. Arons, A Guide to Introductory Physics Teaching (Wiley, New York, 1990). L.C. McDermott and the Physics Education Group Physics by Inquiry, (Wiley, New York 1996)

Oral Communication Peter Kenny, A Handbook of Public Speaking for Scientists and Engineers (Institute of Physics, 1998)

Texts

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Web sites:

http://www.writing.utoronto.ca/

http://www.writing.engr.psu.edu/

Writing:

***W. Strunk Jr., and E.B. White, *The Elements of Style* 3rd Ed., (Macmillan Co, New York 1979).
***Michael Alley, The Craft of Scientific Writing (Springer 1996) ISBN0387947663
Scott L. Montgomery, *The Chicago Guide to Communicating Science* (University of Chicago Press, 2003).

Texts

General Communication

Arthur H. Bell, Tools for Technical and Professional Communication (NTC Publishing Group ,1995) Ronald B. Adler and Jeanne Marquardt Elmhorst, Communicating at Work - Principles and Practices for Business and the Professions (McGraw-Hill, 5th edition, 1996)

> WRITTEN ASSIGNMENTS – the bare minimum

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ESSENTIALS

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Title and Author Aesthetics Important

A Reader Direct to a Specific Audience

Reading Partner Choose a different one each week

Sources Quote as appropriate

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ESSENTIALS contd	
An Introductory Paragraph	Vital!
Body of Text	Exposition of Facts, Arguments
Concluding Paragraph	Summarizes, Provides closure

– the b	pare minimum
Title and Author (you!)	Aesthetics important
Reading Partner, Sources	Acknowledge
A reader	Direct to a specific audience
Introductory paragraph.	Vital!
Body	Facts, Arguments, Exposition
Concluding paragraph.	Summarizes the material, provides closure.

ESSENTIALS PHY1600S	GUIDELINES
(written and oral)	Be Brief! (<600 words)
SET tell 'em what you're gonna tell 'em	Use lots of white space
	Avoid Redundancy and Verbosity
BODY tell 'em	Use a Spell Checker
	Proof Read - again and again
CLOSURE tell 'em what you've told 'em	Use your Reading Partner
	Read Out Loud

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ORAL ASSIGNMENTS

Good behaviours for giving presentations can be learned!

CLASSROOM BEHAVIOURS OF LECTURERS Harry G. Murray, University of Western Ontario.

In Student Evaluations over Studiech Professor was case previous courses Teaching 5-7 Observers Behaviouring 3 one-hour dasses HIGH in 48 profestorial 15-20 hour of rated MEDIUM 16 rated LOW Of 113 Teaching Behaviours, 53 showed significant statistical correlation with Student Evaluations

Top 5 Negatively Correlated

Nervous Sad Dwells on obvious points Rocks or sways on heels Fails to take initiative in classroom Of 113 Teaching Behaviours, 53 showed significant statistical correlation with Student Evaluations

Top 5 Positively Correlated

Enthusiastic Shows strong interest in subject matter Speaks expressively Moves back and forth in front of class Tells Jokes or Anecdotes

Title Page and Contents. Teaching Philosophy. A statement about the beliefs that inform your teaching. Areas of Expertize. List the areas and levels at which you are qualified to teach. Experience. Details of the teaching you have done. Teaching Materials. List and summary of materials you may have developed to support your teaching - lecture notes, homework assignments, Web pages, etc. Evaluations Summary of any evaluations you have received about your teaching from students and coordinators of any courses you have taught. Letters are particularly useful. Awards. Any teaching awards you have received should be listed here, with details. General. Any innovations you have introduced, influences on other teachers, courses, workshops or conferences on teaching that you have attended – including this course.

THE TEACHING DOSSIER

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