



IET 600 - Impact of Technology
SYLLABUS – Fall 2007
INTERNET COURSE - ONLINE DELIVERY

Morehead State University
Department of Industrial and Engineering Technology



Course Description: **IET 600. Impact of Technology. (3-0-3).** Prerequisite: Instructor consent. A study of the impact of technology on individuals, society, and the environment. Topics will include trends and development of technology, technology systems, technological assessment and innovation.

Instructor: Dr. Charles Patrick, Professor, P.E., C.S.I.T. Office - 209 Lloyd Cassity Building
Voice contact: 606-783-2884 (office), 606-784-4452 (home), 606-776-2274 (last resort - cell)

Course Purpose: The purpose of IET 600 is to help students comprehend, analyze, and evaluate the nature, scope, and function of technology in society. Students will be challenged to consider and assess the evolution of technology and society and their mutual impact. The course is intended to facilitate the integration of student views into a coherent and realistic perspective of a technological society. Students will be challenged to consider and assess the evolution of technology and society and their mutual impact. The course is intended to facilitate the integration of students' views into a coherent and realistic perspective of a technological society. To accomplish this, students will be motivated to reflect upon complex issues and then engage in dialogue, through individual and group activities, designed to enhance and enrich their awareness of the complexity of technological issues.

Online Information:

Email: c.patrick@moreheadstate.edu [This is my email address but all correspondence for IET 600 will be managed through the “My Messages” function in Blackboard.]

Web page: <http://www.cpatrick.info> to redirect to Dr. Patrick’s MSU web page.

IMPORTANT:

- You are **registered** for this class at MSU but you **MUST also be electronically enrolled** for the class online. If you are not enrolled on Blackboard for IET 600, **DO THAT NOW!**
- Enrolling in the Blackboard IET 600 course is not optional and must be completed immediately.

Blackboard “My Messages” function: VERY IMPORTANT:

- We will communicate within Blackboard using the “My Messages” function. This is an internal email system within Blackboard.
- On IET 600 in Blackboard, click on “My Messages” on menu at left and then on ‘Inbox’. Check for your messages at each login; do NOT assume you have no messages. This is an essential part of this course and each student must maintain consistent communication with Dr. Patrick.

Computer Hardware and Internet Connection Speed:

This is an online course; therefore, it is assumed that you have the necessary computer hardware and Internet connection capabilities that will allow you to access, generate, and submit the required course information. At a minimum, you should have (1) a relatively current computer (no more than

2 years old); (2) Microsoft Office 2003 or higher including MS Word (or the equivalent word processor software that can save files in MS Word “doc” format) and MS PowerPoint; and, (3) a high-speed Internet connection [it is necessary to access several relatively large electronic files (6+ megs) in this class, so a dial-up connection is not recommended]. If you do not personally have access to the required hardware, you are strongly encouraged to get access prior to attempting this class. If you have questions about computer hardware, software, or Internet connection speed, contact Dr. Patrick immediately.

Course Outline:

<u>Week</u>	<u>Topic</u>
1.	Understanding class requirements and introducing yourself to the class
2.	Science, technology and society (STS): definition, context, relationships
3.	Is the world flat?
4.	Is the world flat?
5.	Forces That Flattened the World
6.	Forces That Flattened the World
7.	The Triple Convergence
8.	Midterm Exam
9.	The Great Sorting Out
10.	Scientific truth and the affect on society
11.	America and the Flat World
12.	The Quiet Crisis
13.	Companies and the Flat World
14.	How Companies Cope
15.	The Dell Theory of Conflict Prevention
16.	Presentations
17.	Final Exam

Textbook and Reference Sources:

Required Text (you must have this book – absolutely no exceptions):

Friedman, Thomas. (2006) The World is Flat [Updated and Expanded]: A Brief History of the Twenty-First Century. 2nd edition. New York: Farrar, Straus & Giroux. [ISBN 0374292795]

Reference Texts:

Barry, J.A. (1991). Technobabble. Cambridge, Mass.: MIT Press.

Gradwell, J. B. (1996). Technology--Shaping Our World. South Holland: Goodheart-Wilcox Co.

Hjorth, L. S., Eichler, B. A., Khan, A. S., and Morello, J. A. (2000). Technology and Society: A Bridge to the 21st Century. Upper Saddle River: NJ: Prentice Hall.

Markert, L.R. and P.R. Backer. (2003). Contemporary Technology: Innovations, Issues, and Perspectives. Tinley Park, IL: Goodheart-Willcox Company, Inc.

Negroponte, Nicholas. (1995). Being Digital. New York: Knopf.

Pool, Robert. (1997). Beyond Engineering: How Society Shapes Technology. NY: Oxford University Press.

Postman, Neil (1992). Technopoly: The Surrender of Culture to Technology. NY: A. Knopf, Inc.

Teich, Albert. (1993). Technology and the Future. New York: St. Martin's Press.

Course Performance Objectives:

Upon successful completion, students will be able to:

1. Construct a philosophical perspective regarding technology in relation to other domains of knowledge and human adaptive systems.
2. Characterize technology as a broad and dynamic phenomenon that includes the interaction of volition, knowledge, resources, processes, and outcomes.
3. Trace the history of selected technological developments with consideration for the impact each has had on the condition of the world.
4. Identify technological developments that are currently having a significant impact on individuals, society, the global community, and the environment.
5. Assess new developments and identify impact these developments are likely to present.
6. Speculate about future technological developments and project impact scenarios.
7. Identify issues resulting from significant technological development considering the past, present, and future.

Course Requirements:

- A. **Writing activities:** Answering open-ended questions and providing feedback on reading materials related to the interdependency of technology and people/culture.
- B. **Group activities:** Conducting research and posting information for other group members on Blackboard; providing feedback to group members on posted information.
- C. **Topic presentations:** PowerPoint presentations on topics from the textbook and other sources.
- D. **Examinations:** Essay/discussion questions on exams (midterm and final exams) to identify the student’s understanding of the topics covered.
- E. **Research project:** This project involves writing a research paper on a selected topic about the impact of technology on people and developing a web page on the MSU server to post the paper with appropriate links and graphics to support the topic.

Assessment /Grading:

A. Individual activities	75
B. Group activities	50
C. Topic presentations	75
D. Midterm exam.....	100
Final exam.....	100
E. Research project.....	100
Total Points Possible.....	500

Grading Assignments/Exams/Project: All written assessment will be graded and returned to students within one week of submission. The instructor will provide written feedback on all assessments. All assignments, presentations, exams will be submitted and feedback provided from Dr. Patrick through Blackboard in electronic format. Students are encouraged to ask for a review of any graded work, if it is felt the grade received was not appropriate or accurate. The work in question must be returned by the student within one week of receipt with a written statement of explanation, justified by lecture notes, textbook, or other material from class. The final decision for the grade on all student assessment items is the responsibility of the class instructor.

Academic Honesty:

Cheating, fabrication, and any form of plagiarism will **not** be tolerated. Academic dishonesty will result in severe disciplinary action including, but not limited to, failure of the student assessment item or course, and/or dismissal from MSU. If you are not sure what constitutes academic dishonesty, read *The Eagle: Student Handbook* or ask your instructor. The policy is located online in the “Student Conduct Code” at:

<http://www.moreheadstate.edu/units/studentlife/handbook/index.html>.

Note: Copying information from the Internet is plagiarism if appropriate credit is not given.

Class Attendance/Participation:

This is an **online** class; therefore, you will not be required to attend (or be online) at any particular day/time for each week of the class. There will likely be two (2) exceptions to this rule when the class will meet (virtually through Blackboard) at a time that all (or most) of the students will be available. While you will not be required to be online during any particular day/time each week, you are expected to check the course requirements/announcements in a timely manner. A general rule of thumb is to check the course “Announcements” and “My Messages” on Blackboard daily and at times, multiple times per day (including weekends).

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