"Every day, in every way, we're getting better and better"....MAYBE!

Progress! What is it? Is it always good? Sometimes good? Never good? Microcomputers, test tube babies, solar cells, wonder drugs, nuclear power, mechanical hearts, the "green revolution".....toxic wastes, genetic engineering, pesticides, nuclear holocaust....The paradox of progress. The concept of progress at the historical intersections of science, society and culture, with some of its manifestations, forms the central thesis of this core program.

Since the 17th century, the idea of progress has been a key element of the western world view and understanding of the motion of history. We have seen dramatic breakthroughs in the scientific, social and cultural realms of life. But progress and its idea of scientific mastery and social betterment have presented us with a paradox: at the same time that our life span has been lengthened, our quality of life improved, our concepts of justice, equity and humanity broadened, individuals and groups have felt the loss of autonomy, the inability to affect the course of their lives; advanced industrial nations have suffered recurrent cycles of boom and depression, and the world is perched on the edge of nuclear disaster.

By studying Newtonian mechanics and astronomy, thermodynamics and the steam engine, relativity theory and nuclear physics, Darwinian evolution, genetics, molecular biology, and sociobiology, the scientific bases for some of cur current and future technological developments can be understood. By studying the development of liberalism, the industrial revolution, the rise of Social Darwinism, the romantic revolution and the social impact of modern technology, we will come to understand some of the historical roots of the idea of progress, some of its paradoxical effects and what some of its implications for the future might be.

This is a core program in which students interested in the natural sciences, social sciences and the humanities will be able to develop the competencies and skills required to do advanced work. It will offer regular instruction in critical reasoning, expository writing, analytical reading and the discussion of ideas. It will provide students the opportunity to advance their competencies in mathematics, biological and physical sciences, the humanities and the social sciences. Research projects and computer work will be included. This is a full-time, year-long coordinated study. Winter quarter entry will also be permitted.

Representative samples of the types of reading to be assigned are the following: Between Past and Present, Arendt; The Age of Revolution, Hobsbaum; The Copernican Revolution, Kuhn; Darwin, Norton Edition; On Human Nature, E.O. Wilson; Civilization and Its Discontents, Freud; The Theory of Relativity, Einstein; Brave New World, A. Huxley; The Tempest, Shakespeare; The Jungle, U. Sinclair; What is History, Carr; Death of a Salesman, Miller; Invisible Man, Ellison.

The faculty team members are: L. Eickstaedt, J. Hahn, S. R. Martin, B. Youtz.

<u>Probable</u> <u>Course</u> <u>Equivalencies</u>: History of Ideas, Literature, Political Science, Expository Writing, Physical Science, Biological Science, Mathematics, Computer Studies, Project Research.

THE PARADOX OF PROGRESS

COORDINATOR: Jeanne Hahn

"Every day, in every way, we're getting better and better"....MAYBE!

Progress! What is it? Is it always good? Sometimes good? Never good? Microcomputers, test tube babies, solar cells, wonder drugs, nuclear power, mechanical hearts, the "green revolution".....toxic wastes, genetic engineering, pesticides, nuclear holocaust....The paradox of progress. The idea of progress at the historical intersections of science, society and culture, with some of its manifestations, forms the central conception of this core program.

Since the 17th century, the idea of progress has been a key element of the western world view and understanding of the motion of history. By applying the triumphs and methods of the natural sciences to the study of society and human values, people assumed limitless possibilities for human kind. We have seen dramatic breakthroughs in the scientific, social and cultural realms of life. But progress and its idea of scientific mastery and social betterment have presented us with a paradox: at the same time that our life span has been lengthened, our quality of life improved, our concepts of justice, equity and humanity broadened, individuals and groups have felt the loss of autonomy, the inability to affect the course of their lives; advanced industrial nations have suffered recurrent cycles of boom and depression, and the world is perched on the edge of nuclear disaster.

We will examine closely the idea of progress in the natural sciences, the social sciences and the humanities. By studying Newtonian mechanics and astronomy, thermodynamics and the steam engine, relativity theory and nuclear physics, Darwinian evolution, ecology, genetics, molecular biology, and sociobiology, we can grasp the scientific bases for some of our current and future technological developments. By studying the rise of capitalism through the industrial revolution, the development of liberalism and its Marxist critique, the emergence of Social Darwinism, the romantic revolution and the social impact of modern technology, we will come to understand some of the historical roots of the idea of progress, some of its paradoxical effects and what some of its implications for the future might be.

This program will offer regular instruction in critical reasoning, expository writing, analytical reading and the discussion of ideas. Students can advance their competencies in mathematics, biological and physical sciences, the humanities and the social sciences in preparation for advanced work. In the Spring Quarter, research projects and computer studies will be included.

Probable readings include: <u>Between Past and Present</u>, Arendt; <u>The Age of Revolution</u>, Hobsbaum; <u>The Copernican Revolution</u>, Kuhn; <u>Darwin</u>, Norton Edition; <u>On Human Nature</u>, E.O. Wilson; <u>Civilization and Its Discontents</u>, Freud; <u>The Theory of Relativity</u>, <u>Einstein</u>; <u>Brave New World</u>, A. Huxley; <u>The Tempest</u>, Shakespeare; <u>The Jungle</u>, U. Sinclair; <u>What is History</u>, Carr; <u>Death of a Salesman</u>, Miller; <u>Invisible Man</u>, Ellison.

<u>Probable</u> <u>Course</u> <u>Equivalencies</u>: Humanities and Expository Writing-16 quarter hours, Natural Science and Mathematics-16 quarter hours, Social Science and History-16 quarter hours.

5/17/83

PROGRAM DESCRIPTION

This is an interdisciplinary, full time study program concerned with the historical, cultural and scientific roots of twentieth century Western society. In the Fall Quarter the investigation began with the study of the ancient Greek world view as expressed through science, political thought, and literature in order to begin to understand the contrast as well as the continuity with our present world views. The final half of the quarter was concerned with the emergence of "modern" society in Europe during the 16th and 17th centuries through continued study of scientific, social, and literary perspectives.

In addition to the substantive themes of the program, all students worked to develop their skills in analytical reading, expository writing, critical reasoning, and careful discussion of ideas. Students also worked regularly on improvement of their mathematical competencies. This sixteen quarter hour program of study included lectures, seminar discussions, writing lab, math lab, and science workshop each week plus some additional time for astronomical and natural history observation, for which the students maintained a naturalist's field journal.

The reading list for the quarter was as follows:

Terkel: <u>American Dreams: Lost and Found</u> Carr: <u>What is History?</u> Kuhn: <u>The Copernican Revolution</u> Sophocles: <u>Antigone</u> Aristophanes: <u>The Birds</u> Aristotle: <u>Politics; Zoology</u> and <u>Poetics</u> (selections) <u>Genesis</u>, (selections) Shakespeare: <u>King Lear; The Tempest</u> Bacon: <u>The New Atlantis</u> Koestler: <u>The Watershed</u> Hobbes: <u>Leviathan</u> Locke: <u>Second Treatise on Government</u> Defoe: <u>Robinson Crusoe</u>

Bettinger et al: <u>Algebra & Trigonometry</u> or Schneider: Calculus & Its Applications

Natural History References: Golden <u>Birds of North America</u> Randall et al <u>Manual of Oregon Trees and Shrubs</u>, Kozloff <u>Plants & Animals of the Pacific Northwes</u>t

Program Faculty: Jeanne Hahn: Political Economy & Law; (Coordinator) Larry Eickstaedt: Biology & Natural History; Rudolph Martin: Literature & Humanities; Byron Youtz: Physics, Astronomy & Mathematics. PROGRAM DESCRIPTION

This is an interdisciplinary, full time study program concerned with the historical, cultural and scientific roots of twentieth century Western society. The Winter Quarter was a continuation of the Fall Quarter study of world views as expressed through the literature, political thought, and science of the 17th, 18th and 19th centuries in Europe and America. The intent was to build as solid an understanding as possible of the historical and cultural background of 20th century America whose social, political and technical paradoxes, contradictions and dilemmas will become the theme of the Spring Quarter study.

In addition to the substantive themes of the program indicated by the reading list below, all students worked to develop their skills in analytical reading, expository writing, critical reasoning, and careful discussion of ideas. Students wrote weekly Abstracts (Precis and Critique) for each of the seminar books. A considerable effort was expended in teaching research methods and proper critical essay format so that each student could undertake and complete an individually selected research problem dealing with some significant issue from 17th, 18th or 19th century Europe or America.

Students also worked regularly to maintain a Natural History Journal of observations and species accounts, and established a base-line description of a personally selected Field Study Site. Students were also given the opportunity to continue the improvement of their mathematical competencies.

This sixteen quarter hour program of study included lectures, seminar discussions, writing lab, math lab, and science workshop each week plus some additional time for astronomical and natural history observations.

The reading list for the quarter was as follows:

Hawthorne:	The Scarlet Letter
Kingston:	Woman Warrior
Bradford:	On Plymouth Plantation (selections)
Anon:	The Iroquois Constitution

Declaration or Independence, Articles of Confederation, U.S. Constitution, Federalist Papers (selections)

Foner:	Tom Paine and Revolutionary America
Hobsbawm:	The Age of Revolution
Mott-Smith:	The Concepts of Energy, Simply Explained
Marx & Engles:	The German Ideology
Melville:	Benito Cereno
Osofsky:	Puttin' on Ole Massa
Darwin:	Origin of Species and Descent of Man
Emerson:	On Nature
Thoreau:	Walden

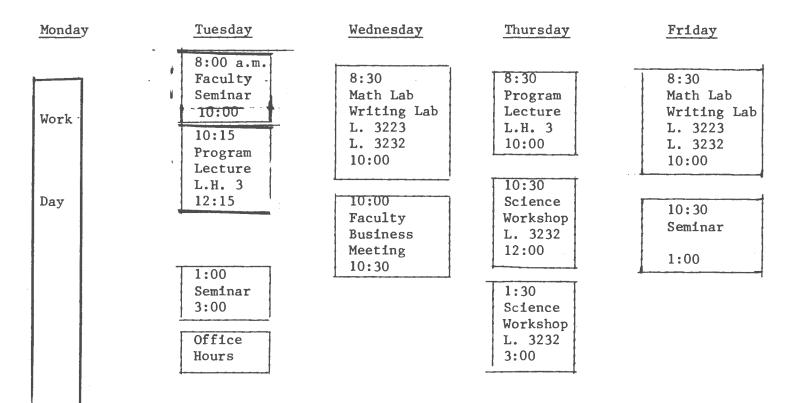
Bettinger et al: <u>Algebra & Trigonometry</u> or Schneider et al: <u>Calculus & Its Applications</u>

Program Faculty: Jeanne Hahn: Political Economy & Law; (Coordinator) Larry Eickstaedt: Biology & Natural History; Rudolph Martin: Literature & Humanities; Byron Youtz: Physics, Astronomy & Mathematics.

Paradox of Progress - Winter Quarter Reading List

- 1. Bradford, "Plymouth Plantation" and Essays on Colonial America
- 2. Hawthorne, <u>Scarlet Letter</u>
- 3. Declaration of Independence, Articles of Confederation, U.S. Constitution, Federalist Papers (selected), Iriquois Constitution
- 4. Foner, Tom Paine and Revolutionary, America
- 5. Hobsbawm, The Age of Revolution, 1789-1848
- 6. Marx and Engles, The German Ideology
- 7. Melville, Benito Cereno and Osofsky, Puttin' on Ole Massa'
- 8. Appleman (ed.), Darwin
- 9. Thoreau, Walden and Emerson, Essay on Nature
- 10. Twain, Huckleberry Finn
- 11. Mott-Smith, The Concept of Energy

SCHEDULE FOR WINTER QUARTER



SYLLABUS FOR SPRING QUARTER 1985 PARADOX OF PROGRESS

THEME: CONTRADICTIONS AND PARADOXES IN TWENTIETH CENTURY AMERICA

WEIEK	TUESDAY	THURSDAY	FRIDAY
I 4/1	Rudy Lecture HUCKELBERRY FINN	"Happily Ever After" Reader's Theater	HUCKELBERRY FINN
II 4/8	Film DRYLONGSO	Faculty Lectures on 20th Century Paradoxes	Rewrite of Papers Due DRYLONGSO
III 4/15	20th C. Paradoxes Research Groups		RETREAT SEARCH
IV 4/22	Jeanne Lecture Research Groups		LABOR & MONOPOLY CAPITAL
V 4/29	Film LABOR & MONOPOLY GA	PITAL	Research Groups
VI 5/6	сомми	NITY STUI	
VII 5/13	Larry Lecture Research Groups		ON HUMAN NATURE
VI I 5/20	Film ON HUMAN NATURE	All-Program S	Research Papers Due Sports, Potluck & Auction
VIII 5/27	Jeanne Lecture <u>FEMINISM & SEXUAL</u> <u>EQUALITY</u>	Computer Catch-up	FEMINISM & SEXUAL EQUALITY
IX 6/3	SYM	POSIUM WE	EK
X 6/10 A	E Y A L U Twentieth Century Novel	JATION RETRE	A T

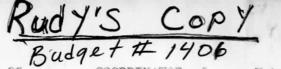
WEEKLY SCHEDULE FOR SPRING QUARTER 1985 PARADOX OF PROGRESS

HOUR	TUESDAY	WEDNESDAY	THURSDAY	$\frac{FRIDAY}{8:00 - 10:00}$
8:30	Faculty Seminar	Writing Workshop#1 (1st 2 weeks only)	Writing Workshop#1 (remaining weeks)	PASCAL Workshop or Writing Workshop#2
10:00	CORE LECTURE or FILM GROUPS		BASIC Computer Workshop	BOOK SEMINAR OR RESEARCH GROUPS
12:00				
A				
1:00	BOOK SEMINAR OR RESEARCH GRO		Math Lab (Optional)	

3:00

5:00

SCIENCE LECTURE SERIES (Optional) Times to be arranged



THE PARADOX OF PROCRESS

F.W.Sp 1984-

COORDINATOR: Jeanne Hahn

"Every day, in every way, we're getting better and better" MAYBE!

Progress! What is it? Is it always good? Sometimes good? Never good? Microcomputers, test tube babies, solar cells, wonder drugs, nuclear power, mechanical hearts, the "green revolution".....toxic wastes, genetic engineering, pesticides, nuclear holocaust....The paradox of progress. The idea of progress at the historical intersections of science, society and culture, with some of its manifestations, forms the central conception of this core program ...

Since the 17th century, the idea of progress has been a key element of the western world view and understanding of the motion of history. By applying the triumphs and methods of the natural sciences to the study of society and human values, people assumed limitless possibilities for human kind. We have seen dramatic breakthroughs in the scientific, social and cultural realms of life. But progress and its idea of scientific mastery and social betterment have presented us with a paradox: at the same time that our life span has been lengthened, our quality of life improved, our concepts of justice, equity and humanity broadened, individuals and groups have felt the loss of autonomy, the inability to affect the course of their lives; advanced industrial nations have suffered recurrent cycles of boom and depression, and the world is perched on the edge of nuclear disaster.

We will examine closely the idea of progress in the natural sciences, the social sciences and the humanities. By studying Newtonian mechanics and astronomy, thermodynamics and the steam engine, relativity theory and nuclear physics, Darwinian evolution, ecology, genetics, molecular biology, and sociobiology, we can grasp the scientific bases for some of our current and future technological developments. By studying the rise of capitalism through the industrial revolution, the development of liberalism and its Marxist critique, the emergence of Social Darwinism, the romantic revolution and the social impact of modern technology, we will come to understand some of the historical roots of the idea of progress, some of its paradoxical effects and what some of its implications for the future might be.

This program will offer regular instruction in critical reasoning, expository writing, analytical reading and the discussion of ideas. Students can advance their competencies in mathematics, biological and physical sciences, the humanities and the social sciences in preparation for advanced work. In the Spring Quarter, research projects and computer studies will be included.

Fall Quarter Reading List:

Algebra + Thig Star chart/ sky wheel Terkel: American Dreams: Lost and Found Carr: What is History? WAristophanes: The Birds Sophocles: Antigone Shakespeare: King Lear Bacon: New Atlantis Shakespeare: The Tempest Hobbes: Leviathan Locke: The Second Treatise of Government Defoe: Robinson Crusoe The Bible: Genesis (selections) Aristotle: Zoology, Politics, Poetics (selections) Kuhn: The Copernican Revolution E.N. Kozloff, <u>Blants + Animals of the Pacific Northwest</u> Birds of North America (Golden Field Gaides)

page 2

Fall Quarter Weekly Schedule:

Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:30- 10:00			Math/Writing Labs L3407/Kabiose	Lecture LHS	Math/Writing Labs L3407/Labs 1059 4
10:00- 12:00	And the la All 1 with	Lecture LHS	Lab#3232 Campus	Science Workshop	Labs L3407/Labs 1059 4 Seminar A+B 20'23 L2218-21 Studs L2218-21 Studs L2218-21 Studs
3:00	Fac. Som.	Seminar A 8217-21	<u>Governance</u> <u>Day</u>	Lab# 3232 Science Workshop Lab#323	ugu ann ann ann ann an
3:15- 4:45	10-12 studs	Seminar B 4 22/3-21	and a start	tion in	nainean I Chu a' an

Some additional evening and daytime hours will be utilized for Astronomical and Natural History Observing.

Faculty Team: Jeanne Hahn, Coordinator, Political Economy and Law, Lab II 2271 Larry Eickstaedt, Biology and Natural History, Lab II 2267 Rudy Martin, Literature & Humanities, Lab II 2253 Byron Youtz, Physics and Astronomy, Lab II 2273

ind I worth Hite 200 1 Caller Faid 6419

Terricity American Domain

Weekly work lood per student: 1 - 11/2 bocks 1 Essay/writing workshops Field Sournal entries Math work (in workshops) Science work (in workshop)

-Reader-g

. ...

SYLLABUS FOR THE PARADOX OF PROGRESS FALL QUARTER 1984

Week and Dates	Semina: Reading	Science Series	Notes
1. 9/24- 9/28	TERKEL: <u>American</u> <u>Dream</u> : <u>Lost and</u> Found.	Observational Astronomy	Save one evening for star gazing.
2. 10/1 -10/5	CARR: <u>What</u> is <u>History</u> ?	Greek Science; KUHN pp. 1 7100 7	Save one evening for star gazing.
3. 10/8 -10/12	ARISTOPHANES: <u>The Birds</u> SOPHOCLES: <u>Antigone</u>	Genesis-Selections ARISTOTLE: Zoology	Start Field Journal.
4. 10/15-10/19	ARISTOTLE: Politics	Medieval Science ., KUHN pp: 100-175	Natural history observing
5. 10/22-10/26	SHAKESPEARE: King Lear	Copernican Astronomy KUHN pp. 175 to end.	First paper due.
6. 10/29-11/2	BACON: The New Atlantis	Kepler's Astronomy (7) KOESTLER pp.(1-150)	
7. 11/5 –11/9	SHAKESPEARE: The Tempest	Galileo and the Telesco KOESTLER pp, 150 to end	pe
8. 11/12-11/16	HOBBES: Leviathan	Descartes and Newton	
9. 11/19-11/23	THANKSGIVING	VACATION	WEEK
10.11/26-11/30	LOCKE: <u>Second Treatise on</u> (overnment	Newton and Gravitation	
11.12/3 -12/7	DEFOE: <u>Rebinson</u> Crusoe	Harvey and Circulation of the Blood.	Second paper due.