

TENTATIVE SCHEDULE FOR ENS 302 : TECHNOLOGY AND SOCIETY
Twelve Lectures on the Twilight of the Industrial Society

FEBRUARY	<p>5 Thursday ; Film IVORY TOWER and INTRODUCTION</p>	<p>12 Thursday ; Lecture 1 : Episteme and Techne i- Two faces of knowledge and historical roots ; ii- What is Science ? QUIZ 1</p>
FEBRUARY	<p>19 Thursday ; Lecture 2 : The great cognitive breakthrough i- The Ancient Cosmology ii- The Copernican revolution iii- Newton's Universe iv- Video musical from Brecht-Losey's Galileo-Galilei QUIZ 2</p>	<p>26 Thursday ; Lecture 3 : Lecture 3 : Soft and hard sciences i - Natural ,Human and Imaginative Sciences ii- Progress in Human Sciences ? iii- Natural Sciences : Physics or Biology QUIZ 3</p>
MARCH	<p>5 Thursday ; Lecture 4 : Fantasies on technology i- Kurzweil's singularity fantasy (Singularity is Near) and a Chinese Example ii-Drexler's Atomically Precise Manufacturing iii-Church on future of biology (Regenesis)? QUIZ 4</p>	<p>12 Thursday ; Lecture 5 : Automation technologies : concepts and history i - The scope of automation technologies ii- Homoestasis vs automaton in biology and technology iii- Historical milestones iv- Moore's law and the present QUIZ 5</p>
MARCH	<p>19 Thursday ; Lecture 6 : Limits of automation i- Mathematical Limits : decidability and complexity ii- Physical, psychological, biological and philosophical arguments iii- Searle's video talk on free will</p>	<p>26 Thursday ; DIGEST WEEK + Midterm (1 hour)</p>
APRIL	<p>2 Thursday ; Lecture 7 : From raw resource to knowledge i- The Keynes essay and the technological unemployment problem ii- Economic models of production: resource and knowledge economies iii- Human capital and Romer's model for knowledge-dominant economies QUIZ 6</p>	<p>16 Thursday ; Lecture 8 : Social Consequences of Automation i- Historical examples ii- An enterpreuner's point of view : Martin Ford's Lights in the Tunnel QUIZ 7</p>

<p>APRIL</p>	<p>23 Thursday ; Lecture 9 : Contemporary Debates on Unemployment</p> <p>i- Debates on causes of unemployment : Brynjolfsson & McAfee book vs Critiques</p> <p>ii-Reich's analysis Phases 1 and 2</p> <p>iii -Rodney Brook's BOBOs</p> <p>QUIZ 8</p>	<p>30 Thursday ; Lecture 10 : New visions after 1980ies</p> <p>i- Global-to-local (Friedman's account of globalism and Tapscott's Wikinomics)</p> <p>ii-Local-to-global : Jacob's cities, Florida's creative labor and chartered cities</p> <p>iii- Romer's video on chartered cities</p> <p>iv- A field study of competition on 500 companies</p> <p>QUIZ 9</p>
<p>MAY</p>	<p>7 Thursday ; Lecture 11 : Politics of industrial society</p> <p>i- Carr's historical account of European nationalism</p> <p>ii-Musical Intermission : Beginning and End of the 19th century optimism : Beethoven's Eroica Symphony Mvt 1 and Mahler's 6th Symphony Mvt 1</p> <p>iii- Gellner's theory of agrarian vs industrial societies and nationalism</p> <p>iv- Invention of compulsory primary-secondary schooling and industrial societies</p>	<p>Lecture 12 : Problems in and possibilities for a just knowledge society</p> <p>i- Towards an Knowledge Society</p> <p>ii- Equality vs Liberty</p> <p>iii- Visions of ethics and Rawl's theory of justice</p> <p>iv- Dilemmas of a just society</p> <p>QUIZ 10</p>