Distinctive Pedagogy of the Liberal Arts in the Fourth Industrial Revolution

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AGENDA

• The Fourth Industrial Revolution & Skills
• Liberal Arts Education
• Global Affairs Major for 4IR World
• What Should the Response Be?
THE ESSENTIAL EIGHT TECHNOLOGIES OF 4IR

- Robots
- Blockchain
- 3D printing
- Drones
- Internet of Things
- Artificial intelligence
- Augmented reality
- Virtual reality

Source: Tech Breakthrough Megatrends, PWC UK
1.2 billion employees are in automatable jobs

China 395.3m employees potentially automatable (51% labour force)
India 235.1m (52%)
USA 60.6m (46%)

Ag: 328.9m employees (50% of global workforce)

Manufacturing: 237.4m employees in automatable jobs (64% of workforce)
Skills for the 4th Industrial Revolution

• Critical Thinking and Problem Solving
• Collaboration Across Networks and Leading by Influence
• Agility and Adaptability
• Initiative and Entrepreneurship
• Effective Oral and Written Communication
• Assessing and Analyzing Information
• Curiosity and Imagination

Source: SingularityHub
www.apaie2018.org
Liberal Arts Education
Pedagogy & Assessing Learning

• Project-based learning: infographic assignments
• Authentic experiences: field trips with deliverables
• Teamwork: role playing simulations, small group discussions
• Self-regulated Capstone Research
Project-Based Learning

A method for developing higher-order thinking skills and engaging students in the learning process.
Global Affairs: Learning Objectives

1. Critical Thinking
2. Problem Solving
3. Information Literacy
4. Written and Oral Communication