PHI 304T: Introduction to Technology Ethics (14 weeks) -- [41484]

Fall 2023

University of Texas at Austin

Instructor: Ryan C. Born Lecture: GAR 0.120 [Garrison Hall]

Office: WAG 421 Times: TTH: 12:30-2:00pm

Email: <ryancborn@yahoo.com> OH: By Appointment in WAG 421, TH 2-4pm

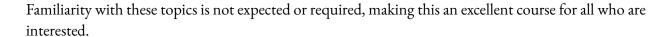
Course Description

It is little secret that the Hollywood Writers' and Actors' strikes are in large part due to actors' fear of being replaced by "artificial intelligence" (AI) technologies.

The explosion of interest in so-called "artificial intelligence" technologies is the latest in a history of human engagement with the ethics of technological development. In the modern information age, the pace of technological advance demands understanding of how to engage with the ethical questions technology raises, not only for theoretical purposes, but also for the goal of advancing human welfare.

This introductory class to technology ethics serves as an introduction to the science and craft of philosophy, a primer on ethical thought, and a rigorous application of philosophy

to questions of technological ethics. Case studies will revolve primarily around modern problems of machine learning, "AI," and other automation age problems.



Questions and topics include: what are ethical theories? How do I understand, analyze, and evaluate an argument? What does it take to be responsible or complicit in development? Why is privacy important, and how does AI threaten it? Can algorithms be made 'fair,' and what would that look like or mean? In the meantime, algorithms reflect human bias -- how can we accommodate that? As AI develops, does it have rights? Should it be developed? What is progress? How does AI threaten democracy and our economic lives, let alone our knowledge base? How is big data affecting us in general? What should our policy look like in the future?



This class satisfies the "Ethics" flag in the Philosophy core component requirements and the University Ethics flag. Ethics courses are designed to equip you with skills that are necessary for making ethical decisions in your adult and professional life. You should therefore expect a substantial portion of your grade to come from assignments involving ethical issues and the process of applying ethical reasoning to real-life situations.

Topics Covered

- Moral theories
 - Virtue
 - Consequentialism
 - Deontology
 - Feminist
- Robotic rights
- The ideal of progress
- Algorithmic fairness
- Big Data
- AI's disruption to:
 - Democracy
 - Knowledge
 - Politics
 - Rights

Skills Learned

- Argument Analysis
- Argumentative Writing
- Persuasive Writing
- Blog/Website Creation
- News Analysis
- Philosophical Reading

Learning Outcomes

- Students can evaluate and respond to arguments
- Students can relate key information and arguments about technological ethics
- Students can write tightly constructed, original arguments

Prerequisites

This is an introductory course. There are no formal prerequisites for this course: however, students will find previous experience with philosophy, ethics, and argumentative writing to be especially helpful.

Required Materials:*

Readings, instructions, assignments, rubrics, recordings, and other essential information will be on Canvas. Questions about the course should first be directed there. Readings not listed below in "Required Books." will be on Canvas.

Required Books:

Ethics, the fundamentals -- Julia Driver

Algorithms of Oppression: How Search Engines Reinforce Racism Illustrated Edition -- Safiya Umoja Noble

Weapons of Math Destruction -- Cathy O' Neil

AI Ethics (The MIT Press Essential Knowledge series) Paperback - April 7, 2020

*These materials for this class are available through the Longhorn Textbook Access (LTA) program, a collaboration between UT Austin, The University Co-op and textbook publishers to significantly reduce the cost of digital course materials for students. You can access your required materials through the "My Textbooks" tab in Canvas. You are automatically opted into the program but can easily opt-out (and back in) via Canvas through the 12th class day. If you remain opted-in at the end of the add/drop period (12th class day fall/spring, 4th class day summer sessions), you will receive a bill through your "What I Owe" page. If you do not pay your bill by the specified deadline, you will lose access to the course materials and your charge will be removed. More information about

the LTA program is available at university coop.com/longhorn-textbook-access.

*all due dates are at 11:59pm the date listed, unless otherwise noted

COLOR CODE: BLACK: Core Reading (read all). COLOR: Supplemental Readings (do no fewer than 1, and as many as you can)

UNIT 1: Introduction to philosophy and ethics						
A crash co	A crash course in ethical theorizing with a heaping side of the state of tech and AI.					
What we'	ll be doing:		Assignments			
 ★ Becoming familiar with the main families of ethical theories ★ Developing philosophy reading skills ★ Acquiring an understanding of the current state of AI and technology, including key questions 			 Introductory Reflection (8/25) Practice Paper Outline (9/10) Blog Posts 			
	T . 1					
TWO DAY		Introduction to Argumentation				
WEEK	L1 (8/22) Intro to	Syllabus" F	Ryan Born			
1	Philosophy & The "How to Read Philosophy" Jim Pryor		ł Philosophy" Jim Pryor			
	Stakes	☐ "What is an A	rgument?" Jim Pryor			
		☐ "Introduction	" in Ethics: The Fundamentals			
		☐ Hollywood A	I backlash: What striking writers and actors fear about			

tech replacing roles | The Independent

Which US workers are exposed to AI in their jobs? | Pew Research

Classical Utilitarianism," in Ethics: the Fundamentals

Introductory Reflection (8/25) -- [Takes the form of your first blog post]

	Consequentialism ಆ Fo	Consequentialism & Feminism		
WEEK	L1 (8/29)	☐ "Contemporary Consequentialism," in Ethics: the Fundamentals		
2	Modern Con.	☐ FTC investigating ChatGPT-maker OpenAI for possible consumer		
		<u>harm</u>		
	L2 (8/31)			
	L2 (8/31) Feminist Ethics	☐ <u>I Shouldn't Have to Accept Being in Deepfake Porn - The Atlantic</u>		

AI Doomerism Is a Decoy

Center

L2 (8/24) Core

Assignments

(Due Dates)

Ethics

		☐ <u>ChatGPT Will Change Housework</u>	
		☐ Social media is fawning over influencer — but she's not even real	
	A (Due Dates)	Blog Check In	
	Deontology		
WEEK	L1 (9/5)		
3	Intuitionism	Get Phones Out of Schools Now - The Atlantic	
		☐ No One Knows Exactly What Social Media Is Doing to Teens - The	
		<u>Atlantic</u>	
		☐ <u>People Have Been Panicking About New Media Since Before the</u>	
		Printing Press	
		☐ The Parents Saying No to Smartphones The Free Press	
		☐ What the Teen smartphone Panic Says About Adults - The Atlantic	
	L2 (9/7)		
	Kant	When A.I. Lies About You, There's Little Recourse - The New	
		York Times	
	A (Due Dates)	Blog Check In	
		Practice Paper Outline (9/12)	

UNIT 2: Ethics of AI Systems	
This unit focuses on the application of Unit 1 to severa	l key philosophical questions in tech ethics.
What we'll be doing:	Assignments
 ★ Applying ethical theories to questions in AI ★ Distinguishing the strengths and limitations of different ethical families to questions in AI ★ Evaluating possible practices within the ethics of AI ★ Evaluating the strengths and weaknesses of ethical theories given questions in AI 	4. Blog Posts5. Paper 1 Outline (10/7)6. Paper 1 (10/15)

	Complicity and Responsibility		
WEEK	L1 (9/12)	☐ "Integrity" George and the Chemical Factory (Chapter 4, 74-76)	
4	Integrity	☐ The Scientists Who Understood Their Obligation to Humanity	
		The Godfather of AI' Quits Google and Warns of Danger Ahead -	
		The New York Times	
	L2 (9/14)	Responsibility, Culpability, and Affected Ignorance Michele	
	Responsibility	Moody Adams	
		☐ 17 fatalities, 736 crashes: The shocking toll of Tesla's Autopilot	
	A (Due Dates)	Blog Check In	
	Privacy and Surveillan	ace	
WEEK 5	L1 (9/19) Privacy and Surveillance	Roessler, Beate, 2017, "Privacy as a Human Right", Proceedings of the Aristotelian Society, 117(2): 187–206. doi:10.1093/arisoc/aox008 The Chinese surveillance state proves that the idea of privacy is more "malleable" than you'd expect China's surveillance ecosystem and the global spread of its tools - Atlantic Council Lawyers Barred by Madison Square Garden Found a Way Back In Detroit woman sues city after being falsely arrested while 8 months pregnant due to facial recognition technology	
	I 2 (9/21)	Meanons of Math Destruction Cathy O' Neil	

	*Writing Day	☐ Read Chapter 1, Chapter 2, <i>at least</i> one other chapter (player's choice: not 5 or 8), and the Conclusion			
	A (Due Dates)	Blog Check In			
	11 (Duc Dates)	Diog Check III			
	Fairness and the Algorithm				
WEEK	K I 1 (9/26)				
6	21 (3/20)	 Binns, Reuben, 2018, "Fairness in Machine Learning: Lessons from Political Philosophy", Proceedings of the 1st Conference on Fairness, Accountability and Transparency, in Proceedings of Machine Learning Research, 81: 149–159. Weapons of Math Destruction: Chapter 5 			
	L2 (9/28)				
	L2 (7/26)	 □ Benthall, Sebastian and Bruce D. Haynes, 2019, "Racial Categories in Machine Learning", in <i>Proceedings of the Conference on Fairness, Accountability, and Transparency - FAT* '19</i>, Atlanta, GA, USA: ACM Press, 289–298. doi:10.1145/3287560.3287575 □ Weapons of Math Destruction: Chapter 8 			
	A (Due Dates)	Blog Check In / Prepare for Paper 1			
	Algorithmic Bias				
WEEK 7	L1 (10/3)	 □ Noble, Algorithms of Oppression: Introduction, Chapter 3 "Searching for People and Communities", Conclusion: (1-14, 110-119, 171-182) □ Optional: Chapter 4 			
	L2 (10/5)	☐ Noble, Algorithms of Oppression: Chapter 2 "Searching for Black Girls" (64-110)			
	A (Due Dates)	Paper 1 Outline (10/7)			
	Why make them: Rob	ots, servitude, and their rights			
WEEK 8	L1 (10/10)	☐ AI Chatbot Spontaneously Develops a Theory of Mind ☐ Richardson, Kathleen, 2016, "Sex Robot Matters: Slavery, the Prostituted, and the Rights of Machines", <i>IEEE Technology and Society Magazine</i> , 35(2): 46–53. doi:10.1109/MTS.2016.2554421			
	L2 (10/12)	☐ "Granny and the Sexbots" Karen Lancaster ☐ van Wynsberghe, Aimee and Scott Robbins, 2019, "Critiquing the Reasons for Making Artificial Moral Agents", <i>Science and Engineering Ethics</i> , 25(3): 719–735. doi:10.1007/s11948-018-0030-8			
	1 (Due Dates)	Dapar 1 (10/15) 1000 Words			

UNIT 3: Society and Artificial Intelligence

While the ethics of artificial intelligence systems themselves are important, it is equally -- or even more -- important to recognize that even 'benign' artificial intelligence has the potential to transform society in both some positive and many negative ways. Thus we seek to understand AI's effects on civilization itself.

What we'll be doing:

- ★ Evaluating the relationship between technological, social, and ethical progress
- ★ Discussing the relationship between democracy and AI technologies
- ★ Evaluating the justice of the economic impacts of AI, and discuss possibilities for more or less fair distributional outcomes
- ★ Discussing AI's effect on our collective and individual knowledge
- ★ Evaluating and creating AI policy

Democracy

Assignments

- 7. Blog Posts
- 8. Paper 2 Outline Due (11/20)
- 9. Paper 2 Due -- 1000-1500 Words (11/25)
- 10. Course Reflection Due (12/1)
- 11. Final Blog Check (12/1)
- 12. Final Exam (12/8)

	The Ideal of Progress	
WEEK 9	The Ideal of Progress L1 (10/17) L2 (10/19)	 ☐ Outlines of an historical view of the progress of the human mind by Marie-Jean-Antonie-Nicolas Caritat, Marquis de Condorcet. ☐ AI Is an Existential Threat to Itself ☐ Generative AI Should Not Replace Thinking at My University ☐ The German Ideology, excerpts. Marx, Karl. ☐ Kissinger, Henry A., 2018, "How the Enlightenment Ends: Philosophically, Intellectually—in Every Way—Human Society Is Unprepared for the Rise of Artificial Intelligence", The Atlantic,
		June 2018. Companies that Replace People with AI Will Get Left Behind Welcome to the Age of 'Foomscrolling' - The Atlantic
	A (Due Dates)	Blog Check In

WEEK 10	L1 (10/24) L2 (10/26) NO CLASS: RYAN	□ Danaher, John. 2016b, "The Threat of Algocracy: Reality, Resistance and Accommodation", Philosophy & Technology, 29(3): 245–268. doi:10.1007/s13347-015-0211-1 □ The Scientists Who Understood Their Obligation to Humanity □ nothing □ nope
	TRAVELING	
	A (Due Dates)	Blog Check In
	The Political Fabric	
WEEK	L1 (10/31)	☐ "Social Contract Theory" in <i>Ethics: the fundamentals</i>
11		An A.I. Leader Urges Regulation and a Rethink - The New York
		Times
		British Summit
		How Regulate AI?
		Opinion Lina Khan: We Must Regulate A.I. Here's How The New York Times
		Biden to Issue First Regulations on Artificial Intelligence Systems -
		The New York Times
	L2 (11/2)	☐ John Rawls (Stanford Encyclopedia of Philosophy) (Part 4, 4.1-4.7)
		☐ America Already Has an AI Underclass
	A (Due Dates)	Blog Check In
	Markets & Labor	
WEEK	L1 (11/7)	Thomas Paine AGRARIAN JUSTICE
12		☐ Before AI Takes Over, Make Plans to Give Everyone Money
	L2 (11/9)	☐ Elizabeth Anderson "What is the point of equality?" (part II)
		☐ Beginning to "Justice as Equality of Fortune," then page
		312 through page 326.
		Writing Day
	A (Due Dates)	Blog Check In / Prepare for Paper 2
	T	
	The Death of Knowing	
WEEK	L1 (11/14)	☐ <u>Epistemology</u>
13		1.6, 2.3, 3.2, 5.1, 5.5
		DeSantis Campaign Uses 'Deepfake' Images to Attack Trump,
		Experts Suggest - The New York Times

			 □ Why You Fell for the Fake Pope Coat □ So Maybe Facebook Didn't Ruin Politics
L2 (11/16)		6)	 Noble, Algorithms of Oppression: Chapter 5 "The Future of Knowledge in the Public. (134-152). The First Year of AI College Ends in Ruin Here Comes the Second Year of AI College - The Atlantic How Easy Is It to Fool A.IDetection Tools? - The New York Times
	A (Due D	Pates)	1) Paper 2 Outline Due (11/20) 2) Paper 2 Due 1000-1500 Words (11/25)
11/20-11,	/25	FALL BRE	ZAK:
	D 1.		
WEEK	Policy	7)	
WEEK 14	L1 (11/27	()	☐ AI Ethics (The MIT Press Essential Knowledge series) Paperback – April 7, 2020
11			Elizabeth Warren and Lindsey Graham Team Up to Police Big Tech - The New York Times
	L2 (11/30) A (Due Dates)		 □ AI Ethics (The MIT Press Essential Knowledge series) Paperback – April 7, 2020 □ The Fight Against Robotaxis in San Francisco - The Atlantic □ California halts operations of self-driving Cruise robotaxis
			Course Reflection Due (12/1) [Takes the form of your final blog post]
12/5-12/6 STUDY DA		STUDY DA	AYS:
Fina			Format: One policy proposal based on previous units. 2 hour exam, expected hour. Open note, preparation required. Instructions given on 11/30.

 $^{{}^{*}\}text{I}$ reserve the right to change the syllabus; you retain the right to reasonable notice of any changes

Final Grade Policy

Grade Band 1	Grade Band 2	Grade Band 3	Grade Band 4
100% - 94% = A	87% - 84% = B	77% - 74% = C	67% - 64% = D
93% - 90% = A-	83% - 80% = B-	73% - 70% = C-	63% - 60% = D-
89% - 88% = B+	79% - 78% = C+	69% -68% = D+	59% - 0% = F

Letter grades for assignments, unless further specified, are assigned at the top of their grade band (i.e, a B- = 83%).

How You are Graded:

You are graded either by completion or by competence.

- Assignments graded by completion must be done completely in accordance with instructions, turned in on time, and done in good faith. If so, the assignment is guaranteed full points. An assignment turned in 'incomplete' will be considered late until it is 'completed.'
- Assignments graded by competence are scored in accordance with the instructions on time, turned in on time, and done in good faith while conforming to standard practices and philosophical standards. These standards are elucidated well on Jim Pryor's website. You are expected to be familiar with these standards and take the necessary steps to meet them.
 - o Guidelines on Writing a Philosophy Paper
 - Guidelines on Grades
 - o Jim Pryor: Grading Rubric
- 304T is designed with an emphasis on small assignments to allow for more feedback
 and improvement, as well as to incentivize quality of work over quantity. Each
 individual assignment is worth relatively little, and so you have the opportunity to be
 flexible and improve overtime without the stress of "three big assignment" syndrome.

Grade Breakdown

- Completion (40%)
 - Attendance -- P/F
 - Participation -- 10%
 - Class Blog Check-ins -- 10%
 - Paper Outlines (3) -- 15%
 - Reflections (2) -- 5%

- Competence (60%)
 - Class Blog Final Check-in 5%
 - Papers (2) -- 35%
 - Paper 1 (15%)
 - Paper 2 (20%)
 - Final Exam -- 20%

Assignment Descriptions

Participation	Being participatory and on-topic in class.
Initial and Final Reflections	A reflection is a ~400 word think piece that reflects upon your own experience coming to the course and leaving the course
Paper Outlines	A paper outline is a complete structure for an essay. The outline you provide should be sufficiently detailed that I could write the essay myself, though you may deviate from your outline as you develop your papers. These are primarily meant to get you thinking early on papers.
Class Blog Check-Ins	Your class blog is meant to collect your thoughts about the news articles we read in the class and apply our ethical theories to those articles with thoughtful reflection. You are also meant to respond thoughtfully to your peers' blogs. Blogs are checked 5 times and then given a final grade. The final grade is worth 50%.
Papers	This class has two essays. The final grade is seperate from your outline grade.
Final Exam	This class has a 1 hour final, though you have two hours to take it. The final will be a policy proposal based on the class. The exam is open note, and will require specific preparation. The instructions for the exam prep will be given in advance.

PowerPoints & Taking Notes

- I will provide my class PowerPoints, but please note that my PowerPoints are always designed first as presentation and teaching tools, and thus will generally serve as (really) poor replacements for notes. For an example, see here.
- The best notes you can take are active notes: that is, summarizing (not attempting to copy) what I say, adding your own commentary, and including visual representations of relationships. For more advice, see here.

Class Modality & Attendance Policies

- Classes are all to be attended in-person, unless emergency accommodations are required.
- Class times (80 minutes TTh) are divided between lectures, individual work, and group work times as the syllabus requires.
- Recordings are prohibited without accommodation, and recordings made for accommodations are not to be shared without permission.
- Students are allowed no more than five unexplained absences per semester

- Explained absences include family emergencies, health emergencies, ongoing illness, travel for competitions, visiting graduate schools, interviews.
- Absences are simply "Excused" in the gradebook.
- Every absence after the five drops your maximum possible total class grade by 5%.
 Thus, six unexcused absences will result in a maximum grade of a 95, seven an 90, and so on.

Extensions, Lateness, Making Up Work

- Students have one 24 hr extension per semester for Competence Grades
 - If an assignment is late, and the extension has not been used, it is automatically applied.
- Students have one 24 hr extension per semester for Completion Grades
 - If an assignment is late, and the extension has not been used, it is automatically applied.
- Late assignments lose 10% of their maximum grade per 24 hours of lateness, prorated. After 72 hours, the assignment receives a 50% and after 96 hours is a 0.
 - Completion assignments turned in as 'incomplete' are treated as late once graded.
- For students with accommodations, I am happy to work out an equitable solution in-line with your accommodations
- For students who require additional time for reasons outside of their control and thus must "make up work" (for example, a serious illness or family emergency), do not worry. We will work on this on a case by case basis. In general, any such makeup would be due one-week after your return.

Technology Policies

- Phones and laptops are prohibited during lectures. Phones should be *off* and *away*.
- Writing tablets and other "paper likes" are allowed.
- Lectures are not to be recorded except with prior accommodations.

Blind Grading Policy

All efforts must be made to submit things blind: names should not be either on the paper OR the filename. <u>I will not grade assignments submitted with identifying information.</u>

Formatting Policy

All assignments should be submitted in 12pt Times New Roman, single-spaced, with standard 1" margins. I will not grade assignments formatted improperly.

Word Count Policy

Assignments submitted with a word count that exceeds 10% of the maximum are limited to a B+.

Assignments submitted with a word count less than 30% of the minimum are considered incomplete.

Office Hours/Communication

My Office Hours are by appointment. Office Hours take place in my office, WAG 421. You are free to come at any time even without an appointment, though be aware I may not be immediately available.

For all questions, Canvas messages are preferred. You can generally expect a response within around a full business day.

You are expected to maintain an awareness of all announcements on Canvas.

Philosophy is a challenging discipline, so please feel comfortable coming to my office hours for anything more substantial than a quick message. I am always happy to help, and these are often the most productive learning experiences for both of us.

Please keep in mind that I will not respond to questions already addressed in the syllabus or any Canvas announcements, and that students are expected to avail themselves of the resources I and the University provide.

Disability and Accessibility

Please let me know if you experience any barriers to learning so I can work with you to ensure you have equal opportunity to participate fully in this course. If you are a student with a disability, or think you may have a disability, and need accommodations please contact Disability and Access (D&A). You may refer to D&A's website for contact and more information: http://diversity.utexas.edu/disability/. If you are already registered with D&A, please deliver your Accommodation Letter to me as early as possible in the semester so we can discuss your approved accommodations.

Academic honesty

For assignments for which outside help is permissible, all outside help must be acknowledged. In particular, if ChatGPT or similar algorithms are used with permission from me, please include a separate page explaining what you did: what questions you asked it, which of its sentences you included in your essay, where and how you corrected its mistakes, and overall, how much of the work you consider to be original to you. Unacknowledged work by GPT or other sources, or impermissible uses, will be treated as violations and receive a 0.

For more information on the university's official policy on academic honesty use the following link: http://deanofstudents.utexas.edu/sjs/acint_student.php>

Suspicion of using Chat GPT or other generative tools, or outside help or services, without permission, will void an assignment and require a resubmission.

Honor Statements:

Your two papers, exam, and final blog submission must contain an affirmation of their originality, namely:

I affirm this is my own original and non-generated work in accordance with class and university policy.

Title IX Reporting

Title IX is a federal law that protects against sex and gender-based discrimination, sexual harassment, sexual assault, sexual misconduct, dating/domestic violence and stalking at federally funded educational institutions. UT Austin is committed to fostering a learning and working environment free from discrimination in all its forms. When sexual misconduct occurs in our community, the university can:

- 1. Intervene to prevent harmful behavior from continuing or escalating.
- 2. Provide support and remedies to students and employees who have experienced harm or have become involved in a Title IX investigation.
- 3. Investigate and discipline violations of the university's relevant policies (https://titleix.utexas.edu/relevant-polices/).

Beginning January 1, 2020, Texas Senate Bill 212 requires all employees of Texas universities, including faculty, report any information to the Title IX Office regarding sexual harassment, sexual assault, dating violence and stalking that is disclosed to them. Texas law requires that all employees who witness or receive any information of this type (including, but not limited to, writing assignments, class discussions, or one-on-one conversations) must be reported. We are Responsible Employees and must report any Title IX related incidents that are disclosed in writing, discussion, or one-on-one. Before talking with me, or with any faculty or staff member about a Title IX related incident, be sure to ask whether they are a responsible employee. If you would like to speak with someone who can provide support or remedies without making an official report to the university, please email advocate@austin.utexas.edu. For more information about reporting options and resources, visit http://www.titleix.utexas.edu/, contact the Title IX Office via email at titleix@austin.utexas.edu, or call 512-471-0419.