
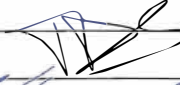

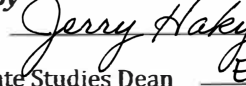
 FLORIDA ATLANTIC UNIVERSITY	NEW COURSE PROPOSAL Undergraduate Programs		UUPC Approval <u>3-29-21</u> UFS Approval _____ SCNS Submittal _____ Confirmed _____ Banner Posted _____ Catalog _____
	Department Department of Philosophy College Arts and Letters <i>(To obtain a course number, contact erudolph@fau.edu)</i>		
Prefix PHI Number 2681	<i>(L = Lab Course; C = Combined Lecture/Lab; add if appropriate)</i> Lab Code	Type of Course Lecture	Course Title Artificial Intelligence and Ethics
Credits <i>(Review Provost Memorandum)</i> 3	Grading <i>(Select One Option)</i> Regular <input checked="" type="radio"/> Pass/Fail <input type="radio"/> Sat/UnSat <input type="radio"/>	Course Description <i>(Syllabus must be attached; Syllabus Checklist recommended; see Guidelines)</i> This course surveys the ethical entailments of artificial intelligence (AI) including the moral status of intelligent machines, the impact of AI on employment, autonomous warfare and biases in design and application of these emerging technologies.	
Effective Date <i>(TERM & YEAR)</i> Spring 2022	Prerequisites, with minimum grade* N/A		Corequisites N/A
		Registration Controls <i>(Major, College, Level)</i> N/A	
*Default minimum passing grade is D-. Prereqs., Coreqs. & Reg. Controls are enforced for all sections of course			
WAC/Gordon Rule Course <input type="radio"/> Yes <input checked="" type="radio"/> No WAC/Gordon Rule criteria must be indicated in syllabus and approval attached to proposal. See WAC Guidelines .		Intellectual Foundations Program (General Education) Requirement <i>(Select One Option)</i> None General Education criteria must be indicated in the syllabus and approval attached to the proposal. See GE Guidelines .	
Minimum qualifications to teach course Ph.D. or equivalent including coursework equivalent to an ABD/Fellow			
Faculty Contact/Email/Phone Susan Schneider, sschneider@fau, 7-3878		List/Attach comments from departments affected by new course	
Department Chair 		Date <u>3/14/21</u>	
College Curriculum Chair 		<u>3.22.2</u>	
Approved by 		3-25-2021	
UUPC Chair 		3-29-21	
Undergraduate Studies Dean <u>Edward Pratt</u>		3-29-21	
UFS President _____		_____	
Provost _____		_____	

Email this form and syllabus to mjenning@fau.edu seven business days before the UUPC meeting.

PHILOSOPHY – PHI 2681

Artificial Intelligence and Ethics

Department of Philosophy

Spring 2022 (Proposed course and Schedule)

Instructor: Dr. Susan Schneider

Office: SO-44

Phone: 7-3878

Email: sschneider@fau.edu

Office Hours: A full office hour schedule is forthcoming. Additional appointments can be made as needed for virtual or in-person meetings.

COURSE DESCRIPTION

This course surveys the ethical entailments of artificial intelligence (AI) including the moral status of intelligent machines, the impact of AI on employment, autonomous warfare and biases in design and application of these emerging technologies. The course focuses on the ethical, political and social implications of AI and related fields including machine learning, deep learning, algorithm and recommender systems, language processing and robotics. Throughout we investigate moral questions such as: will humans create machines that outthink them? Will certain AI creations be conscious, and if so, what responsibilities do we have toward these creations? What is the future of work? What are today's challenges posed by AI systems, and how can we best respond to these challenges?

COURSE OBJECTIVES

The objectives of the course are:

1. To introduce students to the field of artificial intelligence and related technologies especially with a focus on their political, social and ethical entailments
2. To provide an introduction to some of the fundamental questions, theories and methods of the philosophical tradition by examining how they may apply to issues concerning AI and related technologies
3. To foster the capability for students to explore, develop and effectively support their views on machine intelligence and to effectively articulate moral or political responsibilities to humans and machines in line with these views.

REQUIRED TEXTS & MATERIALS

All required texts will be available through the university bookstore:

Nick Bostrom, *Superintelligence: Paths, Dangers and Strategies*

Susan Schneider, *Artificial You: AI and the Future of Your Mind (2019)*

Ford, Martin. *Rise of the Robots*

Wallach, W., & Allen, C. (2008). *Moral machines: Teaching robots right from wrong.*

Additional readings will be posted to Canvas.

COMMUNICATION POLICY

EXPECTATIONS FOR STUDENTS

Announcements

Please read all announcements posted by the instructor. Check the course announcements each

time you log in.

Email/Video Conferencing

The instructor is available via email and for virtual conferencing. Please reach out to the instructor to set up your meetings.

Course-Related Questions

Either join the video conference each week to ask course-related questions or email the instructor directly, if you have any issues or concerns related to the course that are of a personal nature.

Electronic Communication Policy

In addition to the University's policy, please consider the following:

- Privacy, confidentiality, and security in all electronic communications.
- All electronic communication resources must be used for the course and in alignment with to the University mission.
- Prohibited use of false identity, false identity pseudonyms, or anonymous (sender's name or electronic identification is hidden).
- Access without consent.
- Disruption of services including introducing computer contaminants (viruses).
- Harassment of any kind.

Please see the Office of Information Technology's policies on [Cyber Security Awareness](#).

NOTIFICATIONS

You should check CANVAS to ensure you do not miss pertinent postings, messages, or announcements. It is imperative that you meet course deadlines for blog and paper submissions and that you access quizzes and examinations when they have been made available on Canvas. If you are experiencing major illness, absences due to University duties, or other large-scale issues, contact the instructor immediately to formulate a resolution.

NETIQUETTE

Due to the casual communication common in the online environment, students are sometimes tempted to relax their grammar, spelling, and/or professionalism. Please remember that you are

adult students and professionals—your communication should be appropriate. For more in-depth information, please see the [FAU statement on netiquette](#).

CLASSROOM ETIQUETTE/DISRUPTIVE BEHAVIOR POLICY STATEMENT

Disruptive behavior is defined in the FAU Student Code of Conduct as “... activities which interfere with the educational mission within classroom.” Students who disrupt the educational experiences of other students and/or the instructor’s course objectives in a face-to-face or online course are subject to disciplinary action. Such behavior impedes students’ ability to learn or an instructor’s ability to teach. Disruptive behavior may include, but is not limited to non-approved use of electronic devices (including cellular telephones); cursing or shouting at others in such a way as to be disruptive; or, other violations of an instructor’s expectations for classroom conduct.

For more information, please see the [FAU Office of Student Conduct](#).

SUPPORT SERVICES & ONLINE RESOURCES

- [Center for Online and Continuing Education and Student Success](#)
- [Counseling and Psychological Services](#)
- [FAU Libraries](#)
- [Freshmen Academic Advising Services](#)
- [Math Learning Center](#)
- [Office of Information Technology Helpdesk](#)
- [Office of International Programs and Study Abroad](#)
- [Office of Undergraduate Research and Inquiry](#)
- [Student Accessibility Services](#)

FACULTY RIGHTS & RESPONSIBILITIES

Florida Atlantic University respects the rights of instructors to teach and students to learn. Maintenance of these rights requires classroom conditions that do not impede their exercise.

To ensure these rights, faculty members have the prerogative to:

- Establish and implement academic standards.
- Establish and enforce reasonable behavior standards in each class.
- Recommend disciplinary action for students whose behavior may be judged as disruptive under the *Student Code of Conduct*.

SELECTED UNIVERSITY & COLLEGE POLICIES

Attendance Policy

Students are expected to attend all of their scheduled University classes and to satisfy all academic objectives as outlined by the instructor. The effect of absences upon grades is determined by the instructor, and the University reserves the right to deal at any time with individual cases of non-attendance. Students are responsible for arranging to make up work missed because of legitimate class absence, such as illness, family emergencies, military obligation, court-imposed legal obligations or participation in University-approved activities. Examples of University-approved reasons for absences include participating on an athletic or scholastic team, musical and theatrical performances and debate activities. It is the student's responsibility to give the instructor notice prior to any anticipated absences and within a reasonable amount of time after an unanticipated absence, ordinarily by the next scheduled class meeting. Instructors must allow each student who is absent for a University-approved reason the opportunity to make up work missed without any reduction in the student's final course grade as a direct result of such absence.

Counseling and Psychological Services (CAPS) Center

Life as a university student can be challenging physically, mentally and emotionally. Students who find stress negatively affecting their ability to achieve academic or personal goals may wish to consider utilizing FAU's Counseling and Psychological Services (CAPS) Center. CAPS provides FAU students a range of services – individual counseling, support meetings, and psychiatric services, to name a few – offered to help improve and maintain emotional well-being. For more information, go to <http://www.fau.edu/counseling/>

Disability Policy

In compliance with the Americans with Disabilities Act Amendments Act (ADAAA), students who require reasonable accommodations due to a disability to properly execute coursework must register with Student Accessibility Services (SAS) and follow all SAS procedures. SAS has offices across three of FAU's campuses – Boca Raton, Davie and Jupiter – however disability services are available for students on all campuses. For more information, please visit the SAS website at www.fau.edu/sas/.

Contact

- **Boca Raton:** (561) 297-3880

Fax: (561) 297-2184, TTY: 711

- **Davie:** (954) 236-1222

Fax: (954) 236-1123, TTY: 711

- **Jupiter:** (561) 799-8721

Fax: (561) 799-8721, TTY: 711

Code of Academic Integrity

Students at Florida Atlantic University are expected to maintain the highest ethical standards. Academic dishonesty is considered a serious breach of these ethical standards, because it interferes with the university mission to provide a high quality education in which no student enjoys an unfair advantage over any other. Academic dishonesty is also destructive of the university community, which is grounded in a system of mutual trust and places high value on personal integrity and individual responsibility. Harsh penalties are associated with academic dishonesty. For more information, see [University Regulation 4.001](#).

Plagiarism

[Plagiarism](#) is unacceptable in the University community. Academic work must be an original work of your own thought, research, or self-expression. When students borrow ideas, wording, or organization from another source, they must acknowledge that fact in an appropriate manner. Plagiarism is the deliberate use and appropriation of another's work without identifying the source and trying to pass off such work as one's own. Any student who fails to give full credit for ideas or materials taken from another has plagiarized. This includes all discussion board posts, journal entries, wikis, and other written and oral presentation assignments. If in doubt, cite your source.

Grade Appeal Process

You may request a review of the final course grade when you believe that one of the following conditions apply:

- There was a computational or recording error in the grading.
- The grading process used non-academic criteria.
- There was a gross violation of the instructor's own grading system.

[Chapter 4 of the University Regulations](#) contains information on the grade appeals process.

Religious Accommodation Policy Statement

In accordance with rules of the Florida Board of Education and Florida law, students have the right to reasonable accommodations from the University in order to observe religious practices and beliefs with regard to admissions, registration, class attendance, and the scheduling of examinations and work assignments. For further information, please see [Academic Policies and Regulations](#).

ASSIGNMENTS AND ASSESSMENT

WRITING

Students will have three writing assignments. Combined the papers will count as **45%** of your grade in this course. The topic of the paper will be chosen from the assigned readings. These papers should be critical in nature, that is, they should both explain but also critically evaluate the philosophical ideas and theories that are being examined in the paper.

All papers will be evaluated for organization, effective argumentation, clarity, and sentence level concerns (i.e., grammar, spelling, syntax). They will also be evaluated for content, i.e., critical understanding of the ideas and/or philosophical theories under discussion. If any of these components is deemed unsatisfactory, the paper as a whole will be considered unsatisfactory.

A copy of the grading rubric that will be used in this class will be posted on CANVAS. This will allow students to know what is expected on the paper and to be sure that all papers will be graded according to consistent criteria.

Additional information regarding the writing assignment will be provided in a timely manner.

QUIZZES

There will be 3 quizzes throughout the semester. The quizzes will cover the assigned readings and lecture material. Please note that **the quizzes** will constitute **15%** of your final grade. Each quiz will be made available **on Friday from 1 PM Friday until 1 PM Saturday**. **There are not makeup quizzes unless you have a VERY good documented excuse—e.g., illness, death in the family, etc.**

EXAMS

There will be two exams for this course. **There will not be a makeup exam unless there is a documented emergency.** Each exam makes **up 20% of your final grade.** The final exam will be available through the **Quizzes** function on Canvas.

COMMUNICATION GUIDELINES

1. Please make sure that all online and email interactions with the professor and your peers are collegial, substantive, encouraging, professional, and courteous.
2. Be respectful of diverse perspectives and refrain from making inappropriate comments in the discussions and personal interactions with the professor and your peers.
3. Make sure that your questions and comments contribute, add, and advance the quality of the discussion.

GRADING BREAKDOWN

- Paper #1: 15%
- Paper#2: 15%
- Paper #3: 15%
- Quizzes: 15%
- Exam One 20%

- Final Exam: 20%

GRADING SCALE

100-94: A

93-90: A-

89-88: B+

87-84: B

83-80: B-

79-78: C+

77-74: C

73-70: C-

69-68: D+

67-60: D

Below 60: F

COURSE SCHEDULE, TOPICS, READINGS, AND ASSIGNMENTS

<i>Date</i>	<i>Topic</i>	<i>Reading</i>	<i>Assignment</i>
		UNIT ONE: PRELIMINARIES	
1/12	1. Introduction	(N/A)	
1/14	2. Overview to AI capabilities	Bostrom, Chapter 1 “Past Developments and Present Capabilities	
1/19	3. Types of Machine Intelligence	Bostrom, Chapter 2 “Paths to Superintelligence”	
1/21	4. Superintelligence	Bostrom, Chapter 3 “Forms of Superintelligence”	
1/26	5. Speed of Superintelligence and its Arrival	Bostrom, Chapter 4 “The Kinetics of Intelligence Explosion”	
		UNIT TWO: AI, MIND AND CONSCIOUSNESS	
<i>Date</i>	<i>Topic</i>	<i>Reading</i>	<i>Assignment</i>
1/28	6. AI and Society	Schneider, Chapter 2 “The Age of AI”	Quiz 1 Due
2/2	7. AI and Consciousness	Schneider, Chapter 3 “Consciousness Engineering”	

2/4	8. Simulations and Skepticism	*Nick Bostrom, "The Simulation Argument: Why the Probability That You Are Living in a Matrix is Quite High"	
2/9	9. The Cogito	* Descartes, <i>The Meditations</i> , Meditation 2	
2/11	10. Machine Consciousness	Schneider, Chapter 4 "How to Catch an AI Zombie"	Essay 1 due
2/16	11. Minds and Matter	Schneider, Chapter 8 "Is Your Mind a Software Program"	
		Unit Three: AI Policy and Regulation	
2/18	12. Current Development Plans	National Science and Technology Council (2016) National Artificial Intelligence Research and Development Strategic Plan	
2/23	13. Reducing Risk	Weinberger, David. Optimization over Explanation	
2/25	14. AI and Employment Erasure	Carl Benedikt Frey and Michael A. Osborne, "The Future of Employment: How Susceptible are Jobs to Computerisation?"	Quiz 2 Due
3/2	15. Labor and Self-Worth	Yuval Noah Hariri "The Meaning of Life in a World Without Work"	
3/4	16. Machine Rights	Nathan Heller, "If Animals have Rights, should Robots"	
3/9	17. Programming Personhood	Lawrence B. Solum, "Legal Personhood for Artificial Intelligences."	
		UNIT FOUR: BIAS AND INEQUITY	
Date	Topic	Readings	Assignment
3/11	18. Intelligence Systems and Inequality	Virginia Eubanks, "Automating Inequality"	Essay 2 Due
3/16	19. Algorithm and Fairness	TBD	
3/18	20. Predictive Policing	J. Angwin, "Machine Bias"	
3/23	21. Population Management	Jeff Asher and Arthur, Rob Arthur, Inside the Algorithm That Tries to Predict Gun Violence in Chicago	
3/25	22. Data Collection and Diversity Challenges	Human Rights Watch, China: Big Data Fuels Crackdown in Minority Region	
3/30	23. Social Ranking	M. Hvistendahl, M, Inside China's vast new experiment in social ranking	Quiz 3 Due
		Unit Five: Moral Machines and National Security	
4/6	24. Machines as Ethical Agents	Wallach and Allen, Moral Machines: Teaching Robots Right from Wrong	
4/8	25. AI and National Security	G. Allen and T. Chan, Artificial Intelligence and National Security	
4/13	26. Autonomous Weapons	P. Scharre, Why you shouldn't fear slaughterbots	
4/15	27. Wrap-Up	Final Day of Class, Wrap up and Review	Essay #3 Due 4/16 by 11:59 PM
4/27	FINAL EXAM	1:15 PM —3:45 PM (ONLINE)	

