

New Jersey Institute of Technology
HSS 404 STS Senior Seminar
Face-to-Face

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HSS 404 STS Senior Seminar Fall 2025

Course Description

A cyborg, short for cybernetic organism, is traditionally defined as a system with both organic and inorganic parts. In the narrowest sense of the word, cyborgs are people with machine body parts. These cyborg parts may be restorative technologies that help a body function where the organic system has failed, like pacemakers and bionic limbs, or other enhanced technologies that improve the human body beyond its natural state. In the broadest sense, any system of human interactions with technology could qualify as cyborgian. That's the perspective for this course. In other words, we are all cyborgs. When we look at ourselves as cyborgs, it forces us to reevaluate the boundaries of the self that we are accustomed to. This includes the boundaries between humans and machines, but goes far beyond that. This course will consider such topics as the cyborg's impact on gender, sexuality, sex, the environment, race and ethnicity, space travel, the prescience of science fiction, and much more.

Student Learning Objectives

1. Students will be able to define and discuss the concept of cyborg.
2. Students will be able to explain the process of cybernetics.
3. Students will be able to discuss cyborgs and politics.
4. Students will be able to discuss cyborgs and sex and gender.
5. Students will be able to discuss cyborgs and space.
6. Students will be able to discuss cyborgs and war.
7. Students will be able to discuss cyborgs and science fiction.
8. Students will be able to discuss the cyborg future.

Required Text

Gray, Chris H. *Cyborg Citizen: Politics in the Posthuman Age*. Routledge, 2002. ISBN 0-415-91979-7

Optional Texts (Some course assignments drawn from Fair Use of the these texts)

Gray, Chris H., et al. *The Cyborg Handbook*. Routledge, 1995. ISBN 0-415-90849-3.
Bateson, Gregory. *Steps to an Ecology of Mind*. University of Chicago Press, 2000. ISBN 0-226-03905-6
Bateson, Gregory. *Mind and Nature: A Necessary Unity*. Hampton Press..2002. ISBN1-57273-4345
Gray, Chris H., et al. *Modified: Living as a Cyborg*. Routledge, 2021. ISBN 978-0-8513-6401-6
Brooks, Charles R. *The Hare Krishnas in India*. Princeton University Press. 1989. ISBN 1-691-00031-X
(Princeton Legacy Library Series on Demand)

Grading

The final grade will be calculates as follows: 1. Exam on Modules 1 and 2 (35%); Essay on Modules 3, 4, and 5 (35%); Final Essay (30%).

NJIT Policy on Academic Integrity

All students must abide by the university's policy on academic integrity. Please review:
Academic Integrity is the cornerstone of higher education and is central to the ideals of this course and the university. Cheating is strictly prohibited and devalues the degree that you are working on. As a member of the NJIT community, it is your responsibility to protect your educational investment by knowing and following the academic code of integrity policy that is found at:

<http://www5.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>.

Please note that it is the instructor's professional obligation and responsibility to report any academic misconduct to the Dean of Students Office. Any student found in violation of the code by cheating, plagiarizing or using any online software inappropriately will result in disciplinary action. This may include a failing grade of F, and/or suspension or dismissal from the university. If you have any questions about the code of Academic Integrity, please contact the Dean of Students Office at dos@njit.edu.

Assignment Details (text readings, links, videos, etc.) are posted on the course Canvas Website)

Module 1

What is a Cyborg?

Norbert Wiener and the Beginning of Cybernetics

Gregory Bateson and Cybernetic Thought

Module 2

Modern Humans as Cyborgs

Donna Haraway's Cyborg Manifesto—The Defining Essay

Module 3

Cyborgs and Politics

Module 4

Cyborgs, Sex, Gender, and the Family

Module 5

Cyborgs in Space and War

Module 6

Cyborgs in Science Fiction

Module 7

The Cyborg Future

Rubric for Assessing Course Written Assignments

1. The topic is appropriate for the assignment. 20%
2. The thesis of the report is clearly stated. 15%
3. The report is logically organized. 15%
4. Citations and Documentation follow MLA format including a Works Cited Page. 15%

5. Sentence structure, paragraphing, and grammar follow standards of written American English. 15%
6. The work is clearly your own. 20%