The University of Arizona ASTR 325: Science and Science Fiction Dr. Richard L. Poss Fall 2019

Description:

This course uses science fiction narratives to stimulate discussion and argument about future advances in science and what those advances might do to society. Changes brought on by science and technology have social, political, psychological, spiritual, and philosophical dimensions, and may involve aspects of race, gender, social class, and the construction of personal identity. We will try to come to an understanding of science fiction as a modern art form intimately involved with humanity's progress in science and technology. Students should be aware that a great deal of reading is required in this course. Classroom sessions will be a combination of lecture and discussion, and may include demonstrations and short videos. Participants will study the materials first, and then we will discuss them in class. There will be reading quizzes, mid-term exams, a final exam, small writing assignments, and a research project.

Required Texts:

Orson Scott Card, ed., Masterpieces: The Best Science Fiction of the Twentieth Century. Ace Paperbacks, 2001.

Ted Chiang, Stories of Your Life and Others. Vintage Books, 2002.

Arthur C. Clarke, Childhood's End. Del Rey, 2016.

D.G. Hartwell, and K. Cramer, Editors, Year's Best SF 14. EOS/HarperCollins, 2009.

Course Outline:	(This class meets Tues/Thur from 11:00 am to 12:15 pm in Flandrau 301.)			
Tues. Aug. 27	Introduction and Overview: What can we expect from this class? What is Science Fiction? Scientific Method. SF vs. Fantasy.			
Thurs. Aug. 29	Case Studies: John Kessel, "A Clean Escape." Case Studies: Anne McCaffrey, "The Ship Who Sang."			
Tues. Sept. 3 Thurs. Sept. 5	Origins: A Short History of Science Fiction. Jules Verne. H.G. Wells. The Golden Age: Asimov, Heinlein, Clarke, Bradbury. Poul Anderson, "Call Me Joe." Robert A. Heinlein, "All You Zombies."			
Tues. Sept. 10	Ray Bradbury, "Dark They Were, and Golden-Eyed." Isaac Asimov and Robotics: "Robbie." "Robot Dreams."			
Thur. Sept. 12	Arthur C. Clarke, Childhood's End.			
Tues. Sept. 17 Thur. Sept. 19	Arthur C. Clarke, Childhood's End. James Blish, "A Work of Art."			
Tues. Sept. 24 Thur. Sept. 26	Daniel Keyes, "Flowers for Algernon." Ted Chiang, "Understand." James Tiptree, Jr., "The Women Men Don't See." Feminist Science Fiction: Joanna Russ, Octavia Butler, Pat Cadigan.			

Tues.		Ursula K. Le Guin, "The Ones Who Walk Away From Omelas." Joanna Russ, "Towards an Aesthetic of Science Fiction."		
Thur.	Oct. 3	Exam #1.		
	Oct. 8 Oct. 10	Magazines: Asimov's, Analog, MFSF. Clarkesworld. Lightspeed. Locus. Ted Chiang, "Exhalation." "Tower of Babylon."		
	Oct. 15 Oct. 17	Paolo Bacigalupi, "Pump Six." Larry Niven, "Inconstant Moon." Michael Swanwick, "The Scarecrow's Boy." Karen Joy Fowler, "Face Value."		
Tues.	Oct. 22	Robert Silverberg, "Passengers." Terry Bisson, "They're Made Out of Meat." Neil Gaiman, "And Weep Like Alexander."		
Thur.	Oct. 24	Ted Chiang, "What's Expected of Us," "The Evolution of Human Science." Ted Chiang, "Story of Your Life." The Science in Science-Fiction Movies: Arrival. Ex Machina. The Martian.		
Tues. Thur.	Oct. 29 Oct. 31	Interstellar. Passengers. Bladerunner 2049. TV Series: Black Mirror, Humans, Continuum.		
	Nov. 5 Nov. 7	Orphan Black, Dr. Who. Exam #2.		
	Nov. 12 Nov. 14	Writing vs. Revising. Sue Burke, "Spiders." Manuscript Formatting and Submission.		
Tues.	Nov. 19	Line editing. Kathleen Ann Goonan, "Memory Dog." Elizabeth Bear and Sarah Monette, "Boojum."		
Thur.	Nov. 21	Line Editing Student Projects. Neil Gaiman, "Orange."		
	Nov. 26 Nov. 28	Science Fiction on YouTube and Social Media. Thanksgiving Holiday – No Classes.		
Tues.		Student Presentations		
Thur.		Student Presentations		
Tue.	Dec. 10	Review and Evaluation. Projects Due.		
Reading Day:		Thursday, Dec. 12, 2018. No Classes.		

Tuesday, Dec. 17, 2019. 10:30 – 12:30. Flandrau 301.

Final Exam:

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Class Meets:

Tuesday and Thursday, 11 – 12:15, in Flandrau 301.

Instructor:

Dr. Richard Poss

Office: Email: Steward Observatory 212 rposs@email.arizona.edu

Telephone:

621-8630

Office Hours:

Monday and Wednesday 2 – 3pm, and by appointment.

CLASS POLICIES:

CLASS PARTICIPATION: It is important to keep up with the day-to-day reading assignments, reading the selections before coming to class. Always bring your text to class with you. Expect occasional short quizzes or writing exercises over the day's reading assignment. Try to marshal your thoughts (favorable or unfavorable) about the material before coming to class. Then argue your point of view when class begins. You are encouraged to get to know each other during the semester, and to study together if possible.

ATTENDANCE: Regular attendance is **essential**. Your attendance and your participation in class discussion are important, and are taken into consideration in preparing your final grade. In addition, the exams and paper topics are all geared to class discussion. If you are not present and alert, it will not be possible to do well in this course.

<u>GRADING</u>: Your grade is based on the two exams, the term paper, the final exam, participation in class, and reading quizzes and writing exercises. The term project is a research paper for which you will first turn in a brief description which will be returned to you. You will be expected to make a brief presentation to the class on the results of your term project.

Exam #1	20 %
Exam #2	20 %
Final Exam	20 %
Term Project	25 %
Short Fiction	5%
Class Participation (including quizzes	<u>10 %</u>
and writing exercises)	100 %

NOTIFICATION OF OBJECTIONABLE MATERIALS: This course will contain material of a mature nature, which may include explicit language, depictions of nudity, sexual situations, and/or violence. The instructor will provide advance notice when such materials will be used. Students are not automatically excused from interacting with such materials, but they are encouraged to speak with the instructor to voice concerns and to provide feedback.

<u>UA NONDISCRIMINATION AND ANTI-HARASSMENT POLICY</u>: The University is committed to creating and maintaining an environment free of discrimination; see http://policy.arizona.edu/human-resources/nondiscrimination-and-anti-harassment-policy. Our classroom is a place where everyone is encouraged to express well-formed opinions and their reasons for those opinions. We also want to create a tolerant and open environment where such opinions can be expressed without resorting to bullying or discrimination of others.

INTEGRITY: Absolute academic integrity is expected of every student in all academic activities. All students are expected to be aware of and follow the *University of Arizona Code of Academic Integrity*. The *Code* prohibits all forms of academic dishonesty, including cheating, plagiarism, and fabrication. The repercussions for all of those found guilty of violating the *Code* will include loss of credit for the work (grade=0) and may include failure of the course or more extreme measures.

<u>PLAGIARISM</u>: Students are encouraged to share intellectual views and discuss freely the principles and applications of course materials. However, graded work/exercises must be the product of independent effort unless otherwise instructed. Written work must be *your own thoughts*. "Double-dipping," (turning in a paper you wrote and used in a previous class), is not permitted. Students are expected to adhere to the UA Code of Academic Integrity as described in the UA General Catalog. See http://deanofstudents.arizona.edu/academic-integrity/students/academic-integrity.

CONDUCT: No laptops are allowed during class. No smart phones, Ipads, tablets, texting or cell phones are allowed during class. Cell phones must be turned off when class begins. When another student is speaking to the class, please give them your attention. You are expected to treat your fellow students with dignity and respect. The use of personal electronics such as laptops, iPads, and other such mobile devices is distracting to the other students and the instructor. Their use can degrade the learning environment. Therefore, students are not permitted to use these devices during the class period.

CODE OF CONDUCT: Selling class notes and/or other course materials to other students or to a third party for resale is not permitted without the instructor's express written consent. Violations to this and other course rules are subject to the Code of Academic Integrity and may result in course sanctions. Additionally, students who use D2L or UA e-mail to sell or buy these copyrighted materials are subject to Code of Conduct Violations for misuse of student e-mail addresses. This conduct may also constitute copyright infringement.

STUDENTS WITH DISABILITIES:

Our goal in this classroom is that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let me know immediately so that we can discuss options. You are also welcome to contact the Disability Resource Center (520-621-3268) to establish reasonable accommodations. For additional information on the Disability Resource Center and reasonable accommodations, please visit http://drc.arizona.edu.

EXCUSED ABSENCES: All holidays or special events observed by organized religions will be honored for those students who show affiliation with that particular religion. Absences pre-approved by the UA Dean of Students (or Dean's designee) will be honored.

The UA's policy concerning Class Attendance, Participation, and Administrative Drops is available at http://catalog.arizona.edu/policy/class-attendance-participation-and-administrative-drop

The UA policy regarding absences for any sincerely held religious belief, observance or practice will be accommodated where reasonable: http://policy.arizona.edu/human-resources/religious-accommodation-policy.

Absences preapproved by the UA Dean of Students (or dean's designee) will be honored. See http://policy.arizona.edu/employmenthuman-resources/attendance.

THREATENING BEHAVIOR: The University prohibits threatening behavior, which it defines as "Any statement, communication, conduct or gesture, including those in written form, directed toward any member of the University community that causes a reasonable apprehension of physical harm to a person or property." The UA Threatening Behavior by Students Policy prohibits threats of physical harm to any member of the University community, including to oneself. For more information, see http://policy.arizona.edu/education-and-student-affairs/threatening-behavior-students.

MISSED TESTS: The exams are already scheduled and posted on the class schedule. If you know that you will miss a test (before the test), you must make arrangements (for valid reasons) for an oral exam at a time and date *prior to* the written test. Missing one of the midsemester exams is an automatic loss of 20% of your grade. Missing the final is a loss of 20%.

<u>GRADES</u>: You have one week from the time an exam is returned to challenge any perceived errors. Although rare, there are occasions when grading errors occur, and you should review your returned work.

<u>INFORMATION</u> contained in the course syllabus, other than the grade and absence policy, may be subject to change with advance notice, as deemed appropriate by the instructor.