

# Course Syllabus

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## **Syllabus: PHI 123-1 - History & Philosophy of Science**

### **Syllabus: PHI 123 History & Philosophy of Science**

#### **Course Information**

Course Title: History & Philosophy of Science

Course Prefix/Number: PHI 123 1

Semester: Spring 2022

Class Days/Times: Online Asynchronous

Credit Hours: 3 cr. hrs. (3 pds: 3 lec)

#### **Instructor Information**

Name: Dr. Sharon Parker

Phone / Text: 520 282 1670 (cell phone)

E-mail: [sparker@tocc.edu](mailto:sparker@tocc.edu)

Office location: N/A This course is online, so I am not on campus.

Office hours: I am available to meet with you by phone or in a Zoom meeting; except in case of emergency I am available Monday through Friday. In case of emergency, I will meet you at a time convenient for you. You may initiate the request, or I might initiate it. We can schedule a virtual time to meet or a phone contact meeting via email.

#### **Course Description**

Comparison of scientific approaches in prehistoric, classical, preindustrial, industrial/pre-digital, and digital societies. Special focus on differences between epistemological approaches of Indigenous peoples with the Western "scientific method." Special Topics may include astronomy, agriculture, medicine, and/or genetics.

### **Student Learning Outcome**

1. Investigate the nature and status of scientific knowledge.
2. Identify key scientific issues, concepts, and methodologies from 1572 to the present.<sup>[1][2][SEP]</sup>
3. Demonstrate understanding of the philosophical questions brought to scientific inquiry; shifts in understanding of climate and other issues in contemporary science.

After completion of the course students will be able to 1. Write a short essay identifying three major ancient philosophies, the figures associated with them, and cultures in which they were developed. 2. Write a response essay about their onsite or virtual field trip experience 3. Compare and articulate Tohono O'odham ethical considerations as described in the *Himdag* to ethical considerations found in Lakota or other Native American traditions.

### **Course Structure**

This course is online asynchronous, so we do not meet in person. And, except for periodic recorded lectures, and made available to you through a link to a Zoom or Loom, recording, communication about the course will be done through postings on the course site, and via email. So be sure to check your TOCC email at least once a day.

Students will be examined based on their comprehension of the readings, participation, and preparation for small group online discussions on particular topics, and application of themes / theory in their individual work for the course.

This is an online discussion-based class. Students are expected to fully engage in the critical analysis of the materials / reading online format through participation in the **Online Discussions**.

- 1- Students are required to post a response to a topic I will post for each Discussion.
- 2- Students will then read the posts of other students in the course and choose at least two posts to respond to, on two different days, in order interact with other students, and

to move the discussion forward. This is an opportunity to also ask others for their input to questions you may have, as we can all learn from each other.

3 - Links to a selection of videos / interviews will be posted for students to access online.

4 - There will be a **Virtual Field Trip** (also recorded on Zoom with the link provided so it can be accessed later if necessary). Full details TBA. There will be a writing assignment for this field trip.

## **Course Learning Materials and Textbook Information**

De Waal, Frans. *Mama's Last Hug: Animal Emotions and What They Tell Us About Ourselves*

Publisher: W. W. Norton & Company; Reprint edition (March 12, 2019)

Kindle Edition. WW. Norton & Company, March 12, 2019

Paperback Edition

Publisher: W. W. Norton & Company; Reprint edition (March 10, 2020)

*Yellowstone Wolves: Science and Discovery in the World's First National Park*. Edited by Smith, Douglas W., Daniel R. Stahler and Daniel R. MacNulty. Foreword by Jane Goodall.

Publisher: University of Chicago Press. 1<sup>st</sup> Edition (December 7, 2020)

Books are available at the TOCC Bookstore and on-line at [www.amazon.com](http://www.amazon.com) (Links to an external site.) (Links to an external site.)

Instructor's copies of excerpts from other texts reflecting Indigenous Philosophical, and Western Philosophical ways of framing the discussions about cognition, being, world-views, and other issues, will be on the Canvas Course site. Some of these may be of use to you as a source for your End of Semester Reflection project.

These textbooks are available at the TOCC Bookstore, and on Amazon.com. They also have an option on Amazon for the Kindle edition if you wish to read online rather than a physical book.

## **Important Dates**

**Spring Semester 2022- January 18, 2022 – May 6, 2022**

First Day of Classes – January 18, 2022

**Registration Deadline** – January 21, 2021

**Drop / Full Refund Deadline** – January 31, 2022

**Week 4 Progress** - February 11, 2020

**President's Day Holiday - College Closed -February 21, 2022**

**45<sup>th</sup> Day Census** - March 4, 2022

**Spring Break - No Classes – March 7 – 11, 2022**

**Application Graduation Due** – March 14, 2022

**Week 8 Progress** - March 14, 2020

**2022 Summer & Fall Semester Registration Begins** – March 21, 2022

**Withdrawal Deadline** – March 30, 2022

**Week 12 Progress** - April 15, 2020

**Last Day of Instruction** – May 6, 2022

**Final Grades Due** – May 13, 2022

**Commencement – May 20, 2022**

### **Evaluations and Grading & Assignments:**

**Your grade will be determined by the following:**

6 Discussion Posts: 40 points each

2 Open-Book Quizzes: 100 points each

2 Reflection Essays: 150 points each

1 End of Semester Project (your choice): 260 points

\_\_\_\_\_ 1000 points possible

900 and above is an A

800 - 890 is a B

700 - 790 is a C

600 - 690 is a D

Under 600 is Failing

### **Himdag Cultural Component**

The Tohono O'odham core beliefs frame the discussion of topics such as astronomy, agriculture, medicine and cognitive ethology.

We will explore the way in which cultural issues are addressed in particular scientific, social and historical contexts. In particular we will examine the way in which past and current cultural and scientific discourse related to discovery, environmental issues, and ethics is situated within the Himdag of the Tohono O'odham nation.

1. Through the application of *T-Wohocudadagwe* will compare and contrast the understanding and application of scientific and environmental theories, broadly constructed, of Western and Indigenous peoples from the 16th century to the present with that of the Tohono O'odham.
2. *T-Apedag*: Reflecting on the culture and well-being of others, particularly in the area of physical and spiritual health and healing practices, provides us an additional way to reflect on our own historical place and healing practices.
3. Respectively studying other sentient beings, such as elephants, wolves, birds and dolphins, leads to a deeper understanding and respect for all including ourselves: *T-Pi:K Elida*.

## **Policies and Expectations**

### **Attendance Policy**

You are expected participate in your **Online Discussions**. Four unexcused absences may result in withdrawal and a "W" or "Y" will be recorded. You may request to be excused from class for religious observances and practices, for illness, for school or work-related travel or for personal or family emergency. If you will be absent, please notify the instructor as soon as possible (approved by Faculty Senate April 2014).

### **Incomplete Policy**

Incomplete (I) grades are not awarded automatically. The student must request an "I" from the instructor who can choose to award an Incomplete only if all three of the following conditions are met:

1. The student must be in compliance with the attendance policy.
2. The student must have unavoidable circumstance that would prohibit the student from completing the course.
3. The student must have completed over 75% of the course requirements with at least a "C" grade.

Incompletes are not a substitute for incomplete work due to frequent absences or poor academic performance. Incomplete grades that are not made up by the end of the ninth week of the following semester will be automatically changed to an F if the agreed upon work, as stipulated on the written form signed by the instructor and the student when the I grade is awarded, is not completed.

### **45<sup>th</sup>-Day Instructor Withdrawal Policy "FW" (Re: asynchronous online classes)**

Students who have missed four (4) consecutive course due dates for learning activities, participation, assignments, quizzes, exams, by the 45<sup>th</sup> - day census report, due on **[date of 45<sup>th</sup> - day found in Academic Calendar on TOCC website]** are assumed NOT to be participating in the class and may be withdrawn at the faculty member's discretion. After the 45<sup>th</sup> - day census, if a student needs to stop attending a course, they must withdraw from the course (see Student Withdrawal Policy).

### **Student Withdrawal Policy "W"**

Students may withdraw from class at any time during the first two-third of the semester without instructor permission and without incurring any grade penalty. Please be sure to withdraw yourself by [withdrawal deadline date found in Academic Calendar on TOCC website] if you do not expect to complete the class, otherwise you may receive an "F" letter grade for the course. For more information on the student withdraw process email [admissions@tocc.edu](mailto:admissions@tocc.edu).

### **Special Withdrawals (Y) Grade**

The "Y" grade is an administrative withdrawal given at the instructor's option when no other grade is deemed appropriate. Your instructor must file a form stating the specific rationale for awarding this grade. "Y" grades are discouraged since they often affect students negatively. Your instructor will not award a "Y" grade without a strong reason.

### **Equal Access Statement/Disability Accommodations**

Tohono O'odham Community College seeks to provide reasonable accommodations for qualified individuals with disabilities. The College will comply with all applicable regulations, and guidelines with respect to providing reasonable accommodations as required to ensure an equal educational opportunity. This process includes self-identifying as a student with a disability, providing supporting documentation of their disability, and being approved for services through the Disability Resources Office (DRO). It is the student's responsibility to make known to their instructor(s) the student's specific needs within the context of each class in order to receive appropriate accommodations. We will work together in order to develop an accommodation plan specifically designed to meet the individual student's requirements.

For more information or to request academic accommodations, please contact: Anthony Osborn, TOCC Disabilities Resource Coordinator, [aosborn@tocc.edu](mailto:aosborn@tocc.edu), or 520-383-0033 for additional information and assistance.

### **Title IX**

Tohono O'odham Community College encourages each student to have the knowledge and skills to be an active bystander who intervenes when anyone is observed or being harassed or endangered by sexual violence. Sexual discrimination and sexual violence can undermine students' academic success and quality of life on campus and beyond. We encourage students who have experienced or witnessed any form of sexual misconduct to talk about their experience and seek the support they need.

Confidential support and academic advocacy can be found with: Student Services Title IX Coordinator/Counselor, Alberta Espinoza, M.Ed. located in I-We:mta Ki: Room 18. Phone 520-383-0033 email: aespinoza@tocc.edu

### **Conduct / Netiquette: Bias, Bullying, Discrimination and Harassment**

Tohono O'odham Community College faculty and staff are dedicated to creating a safe and supportive campus environment as a core value. Harassment based on age, class, color, culture, disability and ability, ethnicity, gender, gender identity and expression, immigration status, marital status, political ideology, race, religion/spirituality, sex, sexual orientation, and tribal sovereign status will not be tolerated.

**DISCLAIMER:** This syllabus is designed to evolve and change throughout the semester based on class progress and interests. You will be notified of any changes as they occur.

- Class participation and preparation are essential to student success. Students must read textual material, prepare for projects, complete required research as stated on the course schedule.
- Failure to submit a project result in a grade of zero (0). An F is a better grade!
- No work accepted after the last class

### **Virtual Classroom/Online Behavior: See Conduct Guidelines Above**

- Students engaged in online behaviors that interfere with the learning of others will be asked to leave.
- Student behavior is also detailed in student handbook under Student Code of Conduct Violations

### **Make-up policy:**

Late assignments that can be made up will be accepted.

At the instructor's discretion, extra credit opportunities and optional activities may be provided.

**Academic Integrity:**

Violations of scholastic ethics are considered serious offenses by Tohono O'odham Community College, the Student Services Department, and by your instructor. Students may consult the TOCC Student Handbook sections on student code of conduct, on scholastic ethics and on the grade appeal procedure. Copies are available at Tohono O'odham Community College.

All work done for this class must be your own, or the original work of your group. While you may discuss assignments with other class members, the final written project must clearly be original. You may use work from books and other materials if it is properly cited. Copying from a book without proper reference or from a person under any circumstances will result in an "F" for the assignment, and at the instructor's discretion, possibly an "F" for the course. If you are uncertain about proper citations ask your instructor or the librarian.

**Course Feedback:**

All assignments will be graded and returned to the students promptly, typically within a week after the assignment is closed for handing in. E-mail and phone messages will be returned within two days. A student or the instructor may request a student conference at any time during the semester. Quarterly grade reports will be provided to each student, either in person, by email or via the electronic system of Canvas.

**Software capabilities:**

- Ability to run Google Chrome Version 78+
- Updated virus protection, if using PC or Mac. (TOCC recommends the free Windows Defender for Windows machines)
- Security: Must have a password/passcode (login) to access the device. This is responsible computing. Students will be bound by the TOCC IT Policy related to passwords, security, and appropriate usage.

**Is there specific software that needs to be installed?**

- TOCC recommends installing the Google Chrome browser as it works well with G Suite. Students collaborate with Google Docs and Microsoft 365 on a regular basis.

**Can I use Alternative Browsers?**



- Firefox, Internet Explorer, Opera, and other unlisted browsers will not be supported.

### **Which Operating System should the device run?**

The decision for the student's device is a matter of personal preference, but the device needs to be able to run the Google Chrome, Microsoft Edge, or Apple Safari Browser. Devices can run Windows, Mac OS, or Chrome OS as long as the minimum requirements listed here:

- Operating System:
  - Windows 8.1, 10
  - MacOS 10.11 or Higher
  - Chrome Version 78 or Higher
- Battery life: 5 hours
- Startup time: No longer than 120 seconds
- Wireless: Integrated
- Keyboard: Integrated, but can be wireless
- Audio: Headphone jack with headphones/earbuds
- Microphone: Integrated
- Camera: Integrated
- Processor: 1.6 GHZ or faster 64-bit processor
- Memory: 4 GB RAM or higher
- Disk Space: 16gb GB or higher
- Screen Size: 10 inches or larger
- Monitor Resolution: 1024 x 768

### **Course Work Schedule: PHI 123**

To get you started:

<https://tubitv.com/movies/572717/the-trouble-with-wolves?start=true> (Links to an external site.)

Download the [www.tubitv.com](https://tubitv.com) (Links to an external site.) app. It is a free app but does have ads. I have the free version and when an ad comes on, I just take a break, get a cup of tea, or breathe. You need the app to access the films which you will see during the semester. You will locate the films on the [www.tubitv.com](https://tubitv.com) (Links to an external site.) site.

Grief

[https://www.ted.com/talks/barbara\\_j\\_king\\_grief\\_and\\_love\\_in\\_the\\_animal\\_kingdom](https://www.ted.com/talks/barbara_j_king_grief_and_love_in_the_animal_kingdom) (Links to an external site.)

Carl Safina

[https://www.ted.com/talks/carl\\_safina\\_what\\_are\\_animals\\_thinking\\_and\\_feeling](https://www.ted.com/talks/carl_safina_what_are_animals_thinking_and_feeling) (Links to an external site.)

[https://www.ted.com/talks/steven\\_wise\\_chimps\\_have\\_feelings\\_and\\_thoughts\\_they\\_should\\_also\\_have\\_rights/up-next?language=en](https://www.ted.com/talks/steven_wise_chimps_have_feelings_and_thoughts_they_should_also_have_rights/up-next?language=en) (Links to an external site.)

Jane Goodall

[https://www.ted.com/talks/jane\\_goodall\\_what\\_separates\\_us\\_from\\_chimpanzees/up-next](https://www.ted.com/talks/jane_goodall_what_separates_us_from_chimpanzees/up-next) (Links to an external site.)

Susan Savage-Rumbaugh

[https://www.ted.com/talks/susan\\_savage\\_rumbaugh\\_the\\_gentle\\_genius\\_of\\_bonobos](https://www.ted.com/talks/susan_savage_rumbaugh_the_gentle_genius_of_bonobos) (Links to an external site.)

**Mama's Last Hug: Are Humans as Smart as Animals; Frans DeWaal**



<https://youtu.be/INa-oOAexno?t=1> (Links to an external site.)

**PHI 123 Assignments for Week 1 & Beginning Week 2.**

**Please note: Week 2 is extended so you have time to beginning of Week 3 so you can get this done. But it will overlap so be prepared.**

**RE Books & Reading Schedules: The books for this course are in your syllabus. I also include them here:**

**DeWaal, Frans. *Mama's Last Hug: Animal Emotions and What They Tell Us about Ourselves*. New York: W.W. Norton & Co. Inc. (2019)**

***Yellowstone Wolves: Science and Discovery in the World's First National Park*. Edited by Smith, Douglas W., Daniel R. Stahler, and Daniel R. MacNulty.**

With a Foreword by Jane Goodall. Chicago: Univ. of Chicago Press (2020).

Please note: I will create Discussions and attach points for each of them. Some of the Discussions may be divided into two parts, i.e., Discussion 3 part 1, Discussion 3 part 2.

I know there may be delays in getting textbooks. But I believe all are in the TOCC Bookstore now. You will also find them on Amazon.com

In Canvas. Go to Modules Folder. Go to Assignment Folder. Go to Course Calendar.

1. Week 1; (1/18/22) Watch the following documentaries available on [tubitv.com](https://www.tubitv.com) ([Links to an external site.](#))
2. Medicine of the Wolf
3. Sila and the Gatekeepers

Discussion Introduce Yourself Assigned.

2. Week 2 & Week 3; (1/24/22 & 1/31/22)

Watch the following videos\_ These are TED Talks by experts in the growing field of animals as sentient beings:

Grief

[https://www.ted.com/talks/barbara\\_j\\_king\\_grief\\_and\\_love\\_in\\_the\\_animal\\_kingdom](https://www.ted.com/talks/barbara_j_king_grief_and_love_in_the_animal_kingdom) ([Links to an external site.](#))

Carl Safina

[https://www.ted.com/talks/carl\\_safina\\_what\\_are\\_animals\\_thinking\\_and\\_feeling](https://www.ted.com/talks/carl_safina_what_are_animals_thinking_and_feeling) ([Links to an external site.](#))

Go back to the Modules Folder. Go to the Instructor Readings Folder. There are two readings there (V.F. Cordova). Please read them both.

Please read the following article. It provides an examination of the history of Western science's use of animals in experiments. Be aware: You may find this quite disturbing to read. I did. But please try to work your way through it. The rest of your readings have the more recent focus about animals and fall more in line with traditional Native American / Indigenous understanding of all of creation as interconnected.

<https://www.counterpunch.org/2022/01/21/the-unspoken-victims-of-covid-19/> (Links to an external site.)

Read *Yellowstone Wolves*, Part 1 through Part 3, including the Foreward by Jane Goodall.

Week 3 readings continued through Week 4:

Discussion Post: topic tba

Week 4: Progress Reports! (2/7/22)

Spring Break - No Classes Mar 7 - 11, 2022

Readings Weeks 4 through 8: Finish Reading *Yellowstone Wolves*

Discussion posts tba

Documentaries tba

Reflection 1 Essay tba

Week 8: Progress Reports (4/15/22)

Week 9 through 11:

Read *Mama's Last Hug*

Watch the following videos:

TED Talk Jane Goodall



<https://youtu.be/51z7WRDjOjM> (Links to an external site.)

60 Minutes



<https://youtu.be/jhtJSSLiUNY?t=1> (Links to an external site.)

Frans DeWaal



<https://youtu.be/meiU6TxysCg?t=1> (Links to an external site.)

Chimps



<https://youtu.be/h71ZBC1IYdw?t=1> (Links to an external site.)

Jane Goodall Releasing Chimp



<https://youtu.be/bCVmfDuRpBc> (Links to an external site.)

Discussion posts tba

Week 12: Progress Reports

Week 12 through 14:

Finish Reading Mama's Last Hug

Watch the following videos

Mama's Last Hug with Jan van Hooff



<https://youtu.be/INa-oOAexno?t=1> (Links to an external site.)

You saw this at the beginning of the semester. Here it is again. Do you understand this the same as before? Or do you see it differently?

Mama's Last Hug: Are Humans as Smart as Animals; Frans DeWaal



<https://youtu.be/INa-oOAexno?t=1> (Links to an external site.)

Discussion tba

Week 15: Wrap Up

End of Class Reflection 2 Essay

Last Class – All work Due – (5/6/22)