ANTH 3701-1 Winter Term 2019 Credits: 4 cr.
W & F 12-1:50pm Room 379 Sturm Hall
Dr. Candace Gossen Candace.Gossen@du.edu
Appts Scheduled by Request

Required Text:
"Into the Woods: A Five-Act Journey into Story" by John Yorke. The book should be read before Mid-Term. Weekly I will use excerpts from the book in the discussions. Create a reading schedule in order to complete on time. All other required course readings will be given in class and made available on Canvas.

Course Description:
Merging Anthropology, Archaeology, Architecture, Science & Sustainability and a whole lot more, we will learn about methods of sustainability and survival that were introduced into various ancient cultures over the past several thousand years. From water collection, irrigation and solar of the desert dwellers of the southwest Hopi, Anasazi, Hohokam to the Lithic Mulch systems of Rapa Nui and the giant Moai, the Earthworks of the Mississippi MoundBuilders such as at Poverty Point; the Haida and the salmon of the Great Bear Rainforest and the astronomical aptitude of the Mayans. Through lecture, multi-media films and presentation, with hands-on chart, drawing, and model building we will apply the learned knowledge into understanding adaptation.

Objectives:
The student will:
*be introduced to archaeology and global cultures including the Hopi, Hohokam and Anasazi (desert SW), Mayan (Central America), Rapa Nui (South Pacific), Haida Gwaii (Great Bear Rainforest), MoundBuilders (Mississippi River Valley), Mapuche (Chile/ Argentina), Pompeii and the Golden Ratio (Italy), the Amber Road (Ancient trade) and find out what they all have in common - forests, water and climate change.
*be able to read and use sun charts and how to orient structures for passive solar
*be able to calculate rainfall and understand the design of ancient rainwater collection systems
*be able to calculate solar for Photovoltaic (electricity) and Hot Water systems
*be able to understand earth shelters and make your own soil jar tests
*talk about current trends in energy and how the science of ancient cultures utilized nature including solar, wind and even the stars for their buildings and cities
*understand how all energy on earth wants to be simplified into heat, this is the first Law of Thermodynamics, and is the basic rule to all natural systems
*learn to draw to scale using a compass and protractor
*learn about patterns of design, how nature's principle is based on the golden rectangle, fibonacci numbers and ratio

Essential Learning Outcomes:
Reading
1. Students will be able to identify and express the central issues of arguments of the articles and books they read.
2. Students will be able to recognize the possible implications of the texts they read for context, perspective and issues beyond the author's explicit message.
3. Students will be able to make connections between the content of this course and how it relates to their particular field of study.

Written and Oral Communication
1. Students will be able to communicate articulately, learning to use the language and terminology of the discipline in their writing.
2. Students will be able to present their ideas orally in a clear and organized manner.

3. Students will learn to present arguments based on strong evidence and acknowledge their own biases in their writing.

Class Format and Attendance Policy:
This class is comprised of lecture and class discussion as well as observation activities assigned weekly. Class attendance and participation are critical. Please come prepared to share, discuss and ask questions about assigned readings, lectures, films, and projects. If you have to miss a class or arrive late, please make sure you get all of the requirements of that class that day and turn in all assignments on time.

Late Assignments
All assignments must be completed on time. Late assignments **are not accepted.**

Respect and Academic Honesty
Each of us has unique and varying viewpoints on topics of the world. It is therefore important that we maintain a high degree of respect and patience towards fellow classmates. No plagiarism.

Cell Phones, Tablets, Laptops and other E-Devices
Turn off your cellphone and/or other devices before you enter the classroom and store in your backpack. Laptops: Are allowed only if there is an in-class assignment where access is needed. This will be at the discretion of the instructor.

Tests/Written Assignments and Grading:
Your course grade will be based on the following types of work and assignments:

10 weekly Activity Assignments	10 pts each	100 pts
Group Discussion/Participation	10pts each	100 pts
Final Group Project/Grad Paper		100 pts
Total		300 pts.

Grading scale:
A = 90 – 100% B = 80 – 89% C = 70 – 79% D = 60 – 69% F = 0 – 59%

Activity Assignments:

On Wednesdays, Professor will lecture on the weekly topic. These will include personal field work in anthropology and archaeology from different geographic and culturally diverse locations. You will take notes and use in your group discussions. On Fridays we will have group discussions about the the culture, their adaptations and discuss the science assignment that will be due the following Wednesday. The objective is to cover the past, present and future of the subject matter and give you greater awareness and observation in your current life.

Reading Discussions

Each Friday, the first hour of class will be group discussion time. Each member of the group will research and find new information to bring to the weekly topic and share with their group (10-15min. each). Please bring a typed one page summary with references for each of your group mates and a copy for the teacher. Each group will have 3-4 individuals assigned to it, so it will be your responsibility to work with these other individuals. Presentations must have some form of visual medium this includes things like: PowerPoint, Prezi, videos, photo journals, or any other creative method that explains the subject matter of the text to the rest of the class. Your grade will be based on your ability to make the article clear to the rest of the class and the ability to field questions on your article. Keep in mind if you use video it should be under 2 minutes in length.

Each weekly summary will receive 10 points for each assignment, and the participants will receive up to 100 pts per term. These are peer graded. It is your responsibility to communicate with your group from the very beginning. If you do not communicate with your group you will not receive credit for the assignment.

There is no makeup or late work accepted for this portion of the class. If you miss your day you lose the points and cannot make them up.

Course Breakdown by Date

Week One & Two:			
Wed Jan 7	Class 1	Introductions, and the Syllabus, World Cultural Map, Groups	
Friday Jan 9	Class 2	Rapa Nui - BBC Film from field work 2014	Solar & Climate Change
Wed Jan 16	Class 3	Rapa Nui -Lithic Mulch, Oxygen isotopes & climate	
Friday Jan 18	Class 4	Rapa Nui -Akus, Taboos & Adaptation	
*Mon Jan 21 - MLK Holiday			
Week Three:			
Wed jan 23	Class 5	Otzi, the Ice Man - 5,000 year old medicine	Medicine
Friday Jan 25	Class 6	Ancient Asia & traditional medicine	
Week Four:			
Wed Jan 30	Class 7	Garbage Archaeology	Science of Garbage
Friday Feb 1	Class 8	Taxonomy of trash and culture	
Week Five:			
Wed Feb 6	Class 9	Hohokam, the great canal builders	Water
friday Feb 8	Class 10	Engineering water systems and collecting water	
Week Six:			
Wed Feb 13	Class 11	Poverty Point and Earthworks	Geometry
Friday Feb 15	Class 12	What do Blythe, Ca. and Nazca have in common?	
Week Seven:			
Wed Feb 20	Class 13	Gozo/Malta/Pompeii	Mathematics
Friday Feb 22	Class 14	Perfect Pitch and the hypogeum & the golden rectangle	
Week Eight:			
Wed Feb 27	Class 15	Kennewick Man	DNA
Friday Mar 1	Class 16	New Discoveries and methods	
Week Nine:			
Wed Mar 6	Class 17	Ancient Architecture - Temples, Ball courts & the Quetzal	Architecture
Friday Mar 8	Class 18	Thermal Mass, Passive Solar and cosmic design	
Week Ten:			
Wed Mar 13	Class 19	TBD	
Friday Mar 15	Class 20	TBD	

Finals Week: March 18-22

* Spring Break Mar 23-31
* Spring Term begins March 29