

17-101 LIFE AND TIMES OF THE NAVAJO (A REPEAT)

**Larry Stillman, Mondays, 10 am - noon
MV Sonoran Rm 1/9, 1/16, 1/23, 1/30, 2/6**

This course provides a fascinating look at the history and culture of America's largest Indian tribe, from the Long Walk to present day issues, with particular emphasis on the World War II years. These classes will give attendees a better understanding of *Dinetah*, the Navajo Nation: its turbulent history, its remarkable people who have impacted tribal politics and the arts, its historic contribution to the outcome of World War II, its legends and traditions, and more. Furthermore, attendees will leave with a new appreciation for The People, as the Navajos call themselves, who share the same hopes and aspirations as the rest of us.

17-102 WATER QUALITY

**Bruce Hale, Mondays 2 - 4 pm
MV Sonoran Rm 1/9, 1/16, 1/23, 1/30, 2/6, 2/13**

Water quality impacts all of us. The course begins with a description of water properties and constituents that determine quality, and will touch on testing technologies. It will also introduce the Clean Water Act, defining U.S. environmental water quality, and the Safe Drinking Water Act, defining U.S. domestic/potable water quality. To obtain water quality suitable for any specific use, water must often be treated. We will discuss treatment technologies, from small point-of-use to large/complex municipal water recycling. The last two sessions will delve into specific cases; one session for environmental water quality issues such as the Gulf of Mexico "dead" zone and hydraulic fracturing (fracking), and another for domestic water quality issues such as the Wisconsin *Cyptosporidium* outbreak of 1993 and the recent Flint, MI lead contamination event.

17-103 A WALK WITH BILL BRYSON

**Linda Griffin, Tuesdays, 1 - 3 pm
MV Sonoran Rm 1/10, 1/17, 1/24, 1/31, 2/7**

Bill Bryson is a well-known contemporary British author who writes about his travels, his life, the English language, and other interests. He writes with accuracy and always with humor. Reading his works brings information and many laughs. The course will explore three major works:

Neither Here Nor There (travels in Europe), The Life and Times of the Thunderbolt Kid (his own adolescence), and A Walk in the Woods (funnier

than the movie). Students are also encouraged to read ONE of his other works. These three major works can be bought inexpensively on Amazon.

17-104 THE IMPRESSIONISTS-PART II (A REPEAT)

**Laurie Brussel, Wednesdays, 10 am – noon
MV Sonoran Rm 1/11, 1/18, 1/25, 2/1, 2/8, 2/15**

In part one of the Impressionists we delved into the beginning and the development of Impressionism, with a close look at artists such as Manet, Monet, Renoir, Caillebotte, Morisot, Pissaro, Sisley and Cezanne. We studied the composition, brush strokes, and emphasis of light that made their paintings unique. In part two we will get to know Degas, hear more about Gustave Caillebotte and his well known street scenes, get to know the American painter Mary Cassatt, meet Paul Gauguin, learn more about the life of Vincent Van Gogh and his studio in the South with Gauguin. We will also learn about the character Toulous Lautrec and the night life that he was so attracted to and finally all the artists' final days, where they lived, how they aged and about their later paintings. We will see the sense of radicalism and social experimentation that had been associated with the movement begin to wane as the artists aged and became successful.

17-105 BLACK AMERICAN WRITING

**Mike Carran, Thursdays, 10 am – noon
MV Cactus Rm, 1/12, 1/19, 1/26, 2/2, 2/9**

A recurring theme in African-American writing has been the invisibility of the African-American experience among white Americans. Using both literary and expository writings from black writers, the course will look at how this theme has been expressed over the course of the last 125 years. While background materials for each of the writings will be given, the course will be primarily a discussion of the writings.

17-106 ECONOMICS OF SOCIAL ISSUES

John Somers, Fridays, 10 am – noon
MV Cactus Rm, 1/13, 1/20, 1/27, 2/3, 2/10

This course will take a non-mathematical look at how economics and social issues interact. Topics will include how economists reason, demographic changes in fertility and the impact of the cost of raising children, racial discrimination, behavioral economics, “irrational” economic behavior, the financial crisis of 2006-2009, and the US economy and its long term outlook.

17-107 CLIMATE SCIENCE AND GLOBAL CLIMATE CHANGE

Lockwood Carlson, Tuesdays, 10 am – noon
MV Sonoran Rm 1/17, 1/24, 1/31, 2/7, 2/14

This course is about the scientific foundations of the understanding of the global climate, its past, present, and estimates for the future. We will explain and discuss the climatic changes in the last few hundred years and the key role of the increase in atmospheric carbon dioxide (CO₂) concentration and its consequences on the global climate, regional variations, and on human society over the next few decades and centuries.

17-108 THE PALEOZOIC ERA: EARTH BEFORE DINOSAURS

Byron Cotter, Thursdays, 10 am – noon
HOA1 Activity Center, 2/16, 2/23, 3/2, 3/9, 3/16

From the “Cambrian Explosion” to the Permian-Triassic extinction, which wiped out nearly 90% of animal species, the Paleozoic Era encompassed the greatest diversification of life forms in geologic history. Invertebrate life forms diversified explosively in the oceans and vertebrates appeared. Fish evolved from “minnows” into monsters of the ancient oceans. Plants colonized land and evolved into forests. Invertebrates and then vertebrates colonized land as well, and evolved into myriad forms. Eight foot long millipedes roamed the coal forests, as giant insects with two foot long wingspans soared above. Reptiles emerged and evolved into bizarre forms. This course covers the Paleozoic Era in the framework of the evolution of both plant and animal life forms, and the impact of the changing Paleozoic environment on them

17-109 THE JOY OF ASTRONOMY (A REPEAT)

Ken Lund, Fridays, 10 am – noon
HOA1 Activity Center, 2/17, 3/3, 3/10, 3/17, 3/24

The Joy of astronomy is a visual & lecture tour of the Universe. We learn about our solar system, then our Galaxy, travel out into interstellar Space learning about stars, supernovas, nebula ,black holes. Then we close with the theories of the beginning of the Universe itself. The latest astronomy facts are used as provided by the many satellites and daily discoveries. Information is also provided on how learn to observe the night sky.

17-110 MUSIC OF THE 60'S

Susan Kravitz, Mondays, 10 am - noon
MV Sonoran Rm 2/20, 2/27, 3/6, 3/13, 3/20

We will study the emergence and dominance of Rock N' Roll and the Folk Revival of the 1960's. What was the historical context that made this decade ripe for music as a vehicle for boundary breaking personal expression and social change? The great songs of folk and rock history will be covered both live and recorded. Come prepared to sing along and relive your musical memories from this decade.

17-111 FLYING 101

Chuck Stump, Mondays, 2 – 4 pm
MV Sonoran Rm 2/20, 2/27, 3/6, 3/13, 3/20, 3/27

Almost everyone, has, or will, fly in a commercial airplane. However, only a few flyers, or future flyers, understand the basic concepts of flight and how airplanes are managed in their operations. What makes an airplane fly and how does it stay in the air, even when weighing several tons? What keeps aircraft in flight from running into each other, and how do airplanes get from one place to another? How does Air Traffic Control work? How is safety ensured? This course will examine these and other factors involved in aircraft operation.

17-112 SADDLEBROOKE CSI (A REPEAT)

Bart Epstein, Tuesdays, 10 am – noon
MV Sonoran Rm 2/21, 2/28, 3/7, 3/14, 3/21

This course by a forensic scientist will survey what's possible in a forensic science laboratory, and include discussion of trace evidence, blood spatter interpretation, forensic microscopy, and the interaction of forensic science with law enforcement and the legal system. Numerous actual case examples will be shown and participants will do some practical exercises.

17-113 MINING AND MINING HISTORY

David Cook, Tuesdays, 2 – 4 pm
MV Sonoran Rm 2/21, 2/28, 3/7, 3/14, 3/21, 3/28

"If it can't be grown it has to be mined." We all know that milk doesn't come from the grocery store, and that your car and cell phone are combinations of metals and other substances from around the world. Mining has been utilized since the time of the building of the Pyramids. It extracts elements from the earth that make modern life possible. The growth of technology from fire and flint to the satellites and machinery used in today's industry would not be possible without mining. We'll discuss where materials come from, the environmental challenges facing the world, and how we can deal with them.

17-114 PRIMITIVE CULTURES

Eddie Dobson, Wednesdays, 10 am – noon
MV Sonoran Rm 2/22, 3/1, 3/8, 3/15, 3/22

This course will examine the lives of people in two different types of primitive cultures, one a hunter-gatherer society and the other a subsistence level agricultural society. Together, these provide a window on what many prehistoric cultures must have been like. The San people of the Kalahari Desert (otherwise known as the Kalahari Bushmen) are one of the few hunter-gatherer cultures still in existence. The Dani, a clan of people living in the mountains of Western New Guinea practice a wide range of rituals including somewhat ritualized warfare. The course will utilize films on these two peoples made in the 1950's when there was relatively less contact with them than now, and will include extensive discussion of each culture.

#17-115 WINNING THE DREAM: A HISTORY OF CIVIL AND HUMAN RIGHTS IN THE UNITED STATES (A REPEAT)

Boyd Bosma, Thursdays, 10 am – noon
MV Cactus Rm 2/23, 3/2, 3/9, 3/16, 3/23, 3/30

Since the beginning, our country has considered itself a beacon of human and civil rights in the world, but the ideals of the First and Fourteenth Amendments to the Constitution have not always applied to all of our people. Achieving the promises of the Bill of Rights and the ideals that made our nation great has required constant effort and sacrifice. Our generation took part in one of the most amazing and consequential social revolutions in our nation's history. This course will review some of the key people and events that helped to change our nation, with emphasis on the civil rights movement of half a century ago and the achievements it helped bring about that changed all our lives. The course is led by a participant in many of the struggles of that time.