

## Classes without Quizzes- Course Descriptions

### Coastal Hazards Come In Waves

This class explores the coastal natural hazards with a focus on Florida's near shore environment. We will include storm surge from hurricanes, tsunamis - emphasizing the Atlantic threat, and assorted other short topics such as rip currents, coastal flooding, rogue waves, sea level change, and extreme tides.

### Come Fly with Me

This is a discussion on the joys and ease of flight with a balsa wood airplane flight competition. Professor Davis will be accompanied by flight team members and by members of Florida Tech's Women in Aviation to answer your questions about the wonders of flight.

### Countdown College: Launching America's Space University Florida Institute of Technology

Published Author and Professor of History Dr. Gordon Patterson speaks on the rich 50 year history of Melbourne's pioneer research university, the Florida Institute of Technology.

### The Cultural Legacy of Pirates on Florida

From Mel Fisher, Pirates of the Caribbean, the Treasure and Gold Coasts, to Gasparilla Fest in Tampa, this class will trace how and where Florida and the history of pirates intersect. This class will also briefly examine the historical connection and the cultural legacy that pirates and piracy has had on Florida's history and economy.

### Dr. "Vito" Cosentino makes Concrete Float: Mafia Not Pleased

Concrete is used everywhere by Civil Engineers as they develop and maintain our infrastructure. Learn about a unique student event developed by the American Society of Civil Engineers requires students to make a concrete canoe to float and race **Full of Water**. The FIT Concrete Canoe teams from 1997, 98, 99, 2000 and 2003 went to the National Concrete Canoe Competition and finished in the top ten four times.

### Engineering Entrepreneurship

Interested in starting your own business in the engineering field? Learn about the tools you'll need to get there. This lecture covers engineering entrepreneurship, technical marketing, and high tech product strategy.

### From Earth to the Edge of the Universe ... And Beyond

A 45 minute tour of the universe, including: the scale of things, the early universe, cosmology, dark matter and dark energy, the future.

### Fun with Chemistry

In this class, you will be entertained by colorful, noisy, yet fun chemical demonstrations. In addition, you may learn something about the chemistry going on in the world around you everyday.

### The Human Genome Project: What's all the fuss?

The sequencing of the human genome represented a new kind of biology. Massive amounts of information were gathered and organized into many different databases -but, what's there? This lecture will explore what we've learned and what we can expect to learn from all of this data about our not-so-secret code of human DNA.

### Impact of Aviation on Human Body

This mini-course explores the varied environment and forces encountered during normal flight. A brief exploration of high altitude, high performance problems faced by flight personnel is made. Future physiological problems associated with flight, and some possible solutions, are examined.

### Introduction to Systems Engineering

Participants will be introduced to fundamental system engineering concepts such as requirements driven design, life-cycle planning, risk assessment and mitigation, feasibility analysis, trade-off studies, and more.

### Mysteries of Lightning

In this class we will discuss what we know and don't know about lightning. Topics will include lightning facts and misconceptions, lightning safety and current research.

### Snakes... Not Just Another Pretty Face!

Dr. Grace speaks on snakes, their amazing sensors, and how we can apply information from biology to the development of new technologies such as extremely sensitive cancer detectors.

### This is Your Brain on Music: When Fine Arts and Technology Mix

Assistant Professor of Music Jamie Younkin presents this discussion on fine arts and technology.

### Trends in Technology

Explore the world of blogs, podcasts, web videos and more as we look at the hottest trends in technology today.

### Understanding Generation Differences in the Workplace

For the first time in history four distinct generations are actively engaged in the world of work and the potential for misunderstanding and conflict has never been greater. In this lecture Dr. Manley will draw upon his research and consulting experience to explain some of the differences and suggest how you might bridge the generational gaps.