



Wayne State College Honors Program
Student Abstracts, Fall 2009 Honors Colloquium

Andrew Bachman "DIFFERENCES IN MECHANICAL EFFICIENCY BETWEEN TYPES OF ATHLETES AND GENDER"

Instructor Dr. Barbara Engebretsen
Friday, December 11, 2009; 2:00 p.m.; Connell Hall, Room 131

Abstract

Mechanical efficiency is the measure of work output compared to work input. So it is essentially the amount of work one does for a particular amount of energy. Mechanical efficiency is an important component of running and can provide an advantage when competitors are even in other performance variables. Research has shown that the percentage of Type I muscle fibers can be linked to mechanical efficiency but little is known about how different types of training affect mechanical efficiency. So, do different styles of training have different effects on mechanical efficiency? We asked whether sprint or endurance trained athletes would have differences in mechanical efficiency. Our chief aim was to determine anaerobic power, aerobic capacity and mechanical efficiency in pre-competition training conditioned male and female WSC cross country runners and WSC sprinters/ jumpers. These two groups were selected because of their selection to power v. endurance events and their exposure to vastly different styles of training. Results from this study will determine training and event effects on mechanical efficiency. This may be useful for further study to examine training protocols that increase mechanical efficiency in athletes.

Amy Green "THE STRUGGLING READER: WORKING WITH DYSLEXIA"

Instructor Dr. Joni Irlmeier
Friday, December 9, 2009; 4:00 p.m.; Brandenburg Education Building, Room

Abstract

Dyslexia is when a person's brain has difficulty decoding, taking what it sees on paper, usually writing, and turning it into something comprehensible. Say the child sees the word bridge, when he reads this word it becomes dridge and it no longer becomes comprehensible. Dyslexia is one of the most common reading disabilities in the world. Dyslexia affects about five percent or more of all elementary-age children. It can occur in children with normal vision and normal intelligence. Talking with students, teachers, parents, listening to a variety of teaching methods, and looking at brain exams has provided information on how to work with dyslexia. This paper takes an in-depth look at how dyslexia affects the reading mind, ways to diagnosis, and ideas to incorporate into the classroom to help the reader.

Amber Hansen "PRIVATE VS PUBLIC: AN ANALYSIS OF WATER PRIVATIZATION PRACTICES IN LATIN AMERICA"

Instructor Dr. Joe Blankenau
Friday, December 11, 2009; 3:30 p.m.; Connell Hall, Room 131

Abstract

Essential to life and exceedingly more rare, water has been defined as the "oil of the 21st century." Therefore, ownership of water and the related component of provision is a vital issue today and more so to our future. This

paper seeks to identify whether public or private ownership of water services is best. That is, to determine which sector – public or private – is best equipped and capable of addressing issues related to water, and which sector can provide water service in the most effective and efficient possible manner. After reviewing the theory behind the public versus private debate, this paper looks at the findings of past studies in a literature review, then analyses cases of privatization in Latin America, before compiling the results regarding the strengths and weaknesses of each sector. Finally, this paper concludes and explains that private ownership of the water sector is not inherently better capable of managing and providing water services than public ownership.

Whitney Kolar “A QUALITATIVE STUDY OF ENTREPRENEURSHIP IN A RURAL ECONOMY”

Instructor Dr. Jeryl Nelson

Tuesday, December 8, 2009; 2:00 p.m.; Gardner Hall, Room 208

Abstract

In the current state of the declining economy, many people are becoming an entrepreneur to accommodate for lost jobs and careers in the ever-shrinking job market. Certain business ventures which normally cannot survive in an urban economy are finding a home within a rural setting. Rural areas provide different opportunities sometimes on a smaller or more manageable scale, though it depends on the specific business venture. This paper will take a look at what makes entrepreneurship possible in a rural economy- specifically in Wayne, Nebraska.

Jack Lafleur “MANUFACTURING CRIMINALS – JACOBSON V. UNITED STATES”

Instructor Dr. Mark Leeper

Thursday, December 10, 2009; 3:30 p.m.; Connell Hall, Room 131

Abstract

Jacobson v. United States, 503 U.S. 540 (1992), remains the most recent entrapment case heard before the United States Supreme Court. The United States Postal Service targeted Keith Jacobson, a farmer from Newman Grove, Nebraska, in five undercover sting operations over the course of two and one-half years to induce his purchase of illegal child pornography. A splintered Court, rendered a 5-4 decision in favor of Jacobson, confirming he was entrapped, citing his lack of predisposition to commit the crime. This paper identifies the history of the entrapment defense in the U.S. Supreme Court, analyzes each phase of Jacobson’s case, and considers the perspective of Jacobson’s counsel George Moyer. Recent research suggests government sting operations akin to Jacobson’s lead to questionable crime deterrence and lack of effectiveness. Supreme Court decisions involving the entrapment defense historically reflect the political environment of each case’s decade.

Meghan Leary “A COMPREHENSIVE ANALYSIS OF AN ADDICTION RECOVERY PROGRAM AND CLIENT RESPONSE IN NORTHEAST NEBRASKA”

Instructor Dr. Karen Walker

Thursday, December 10, 2009; 4:30 p.m.; Connell Hall, Room 131

Abstract

Addiction is a relentless and unavoidable force in society, both past and present, impacting the lives of individuals and families around the world. The prevalence of this condition has created a pressing need for improvements to be made in both quality and quantity of chemical dependency recovery facilities. Effectiveness, in treating addiction, is typically defined and measured in terms of complete abstinence from the use of mind-altering substances, with very few exceptions (i.e. caffeine, nicotine, prescription medication). The vast majority of treatment programs are centered around the 12-Step Model of recovery, which has elicited favorable outcomes relative to alternative models. This study examines The Women’s Empowering Life Line (The WELL), a residential addiction recovery agency located in Norfolk, Nebraska. The organization is comprised of three distinct levels of transitional care in two separate residences. Interviews with clients and staff of The WELL facilitate a thorough analysis of this program and the components which contribute to its effectiveness in treating chemical dependency. The insight obtained from this comprehensive evaluation of the agency will be of great value in encouraging the ongoing improvement of similar organizations, as well as providing a guide for the development of new recovery programs.

Rebecca Lundgren "THE HEARING IMPAIRED PERSPECTIVE: RECORDING THEIR STORIES AND TECHNIQUES OF COMMUNICATION"

Instructor Dr. Deborah Whitt

Wednesday, December 9, 2009; 2:00 p.m.; Humanities Student Lounge

Abstract

Hearing plays a vital role in how a young child develops communication skills. Most babies still in the womb can hear the voices and noises of the outside world. What babies and toddlers hear aids in neural and communication development? Children who can't hear or who have impaired hearing often take longer to develop verbal communication skills. Even so, many children are able to develop quite remarkable skills to succeed in the classroom and diverse social situations. This paper takes a look at hearing impaired children, the types of hearing losses they have, and how these unique children develop essential communication skills and techniques that can compensate for hearing disabilities.

Jacob Mathieson "YOU CAN GET THERE FROM HERE: PATHS AND TRAILS IN WAYNE, AMERICA"

Instructor Dr. Randy Bertolas

Wednesday, December 9, 2009; 4:00 p.m.; Connell Hall, Room 131

Abstract

Wayne has many excellent exercise trails and paths. Where are they? How long are they? Where do they stop and start? In this project I set out to map these trails. I developed two methods of mapping the trails. One involved using a GPS device and actually traversing the trail. The other involved using a satellite photo and the computer. I also added something to the Wayne State Nature trail. In effort to make this project a service project, I decided to add a fartlek course to the trail. A fartlek is a style of exercise that involves varying intensity levels and exercises while continuously moving. This involved the construction of signs to tell trail users what to do. The goals of this project were to provide maps of the Wayne State Nature trail, and the Pedestrian Trail, and also, to improve one of the trails.

Tamara Nash "BETWEEN IDENTITIES: MULTIRACIAL IDENTITY AND SUBSTANCE ABUSE"

Instructor Dr. Karen Walker

Monday, December 14, 2009; 3:30 p.m.; Connell Hall, Room 131

Abstract

Multiracial individuals represent 2.4% of the American population, not until recent changes in census information has this group of people been accurately identified. Multiracial people are often seen in a marginal light, their identity is misunderstood and underrepresented. Racial identity carries a great significance throughout an individual's lifetime and influences not only their personal development but their values and decision making. This study attempted to examine the formation of multiracial identity as well as the impact it has on the individual. Furthermore, this study attempted to explain racial identity's connection to substance abuse. The current study utilized a 20 statements test, demographic information, ethnic identity and substance abuse survey, and qualitative interviews.

Rachel Schmitz "LIVING LATINO/A IN THE MIDWEST: AN ANALYSIS OF CULTURAL PERSPECTIVES THROUGH THE LENS OF LATINO-OWNED BUSINESSES"

Instructor Dr. Monica Snowden

Friday, December 11, 2009; 4:00 p.m.; Connell Hall, Room 131

Abstract

The Latino population is growing dramatically within the United States, creating a shift in the social dynamics of the communities in which they settle. Specifically, Latinos undergo a diverse set of experiences which coincide with the changing settings of their social environments. Erving Goffman's theories of social interaction such as presentation of self and impression management are valuable in examining the ways Latinos establish their community identities. This qualitative study aims to better understand the unique perspectives of the Latinos/as through the context of Latino-owned businesses in a nonmetropolitan Midwestern community. Face-to-face

interviews were conducted with twenty Latino business owners and employees. The analysis of the data revealed the integral role of employment statuses, perceptions of prejudice and discrimination and diverse cultural viewpoints. The analysis of this data reaffirms Latinos' status as a prominent force in their communities, continually negotiating their social realities and perceptions of self.

Jessica Stuthman "A VIRTUAL WALKTHROUGH OF THE WAYNE STATE COLLEGE CAMPUS"

Instructor Dr. Don Buryanek

Monday, December 14, 2009; 1:00 p.m.; Benthack Hall, Room 103

Abstract

Many colleges and universities around the world are joining a new craze of visiting a campus in your own home. This is only done by providing a virtual walkthrough to perspective students. Due to the economy, more people are lacking the means to travel and physically visit colleges of their choosing. Unfortunately, this means many students are staying close to home and not actually choosing the college of their choice. If a campus walkthrough is available one can simply click and visit a campus which will allow you to still see the beauty of the college before deciding to actually travel and visit. This project's ultimate goal is creating a walkthrough that will showcase the beauty of Wayne State College's campus. While there have been many obstacles as to which route to take in creating a virtual campus, it was found that creating 3D buildings in AutoCAD Architecture that was the best option. The actual animation of the walkthrough will be done in Autodesk's 3D Studio Max Design.