

## Special Topics Courses - Spring 2008

Subject	Course #	Title	Cr.	Description
ABEN	499/696	Biofuels	3	The economics, energetics, limitations, and environmental benefits of biofuels production. Biomass harvesting, storage, and conversion will be discussed for technologies including starch/corn ethanol, cellulosic ethanol, biodiesel, biological hydrogen, and biogas. Prereq: Junior standing in a science or engineering field or by instructor permission.
ADFH	299	Apparel Product Development: Designing Pants	2	Study and application of the theory and techniques of the design of pants patterns, and the fit and construction of garments. Prerequisite: ADFH 155
BUSN	499/696	Management of Adaptive Organizations	3	This course uses systems-thinking to develop the importance of adapting to organizational success. Management theory and tools for adaptive organizations are studied at both the strategic and operational levels. Emphasis is also placed on the role of technology as a facilitator for managing an adaptive organization. Prereq: BUSN 350, STAT 330.
CJ	299	Introduction to Policing	3	Provides an overview of the purpose and function of the police in the United States. Explores the history of American policing, the use of discretion by officers, police and citizen interactions, police effectiveness and corruption.
CPM	499/696	Laboratory Safety	1	The course will cover topics that would be of use for students in almost any scientific degree such as laboratory safety and safe working practices. The course will replace the need to attend the 6 hour safety course offered by the NDSU Office of Environmental Safety and Health.
ECE	796	Computer-Aided Verification	3	Theory and practice of formal verification methods such as decision procedures, model checking, and deductive reasoning. Abstraction and refinement techniques. Applications of formal methods to hardware verification.
HIST	399	Women in European History 1400-1800	3	Exploration of what it meant to be female in early modern Europe; women's options, how women saw themselves, how they were perceived, and origins of these perceptions.
HIST	499/696	The Late Ottoman Empire	3	Covers the second half of the Ottoman Empire from 1683-1918. Topics covered include the role of Islam in conquest and administration, the rights of minority groups, Arab nationalism, civil society, and industrialization.
ME	499/696	Introduction to Computation Fluid Dynamics	3	An in-depth introduction to the methods and analysis techniques used in numerical solutions of fluid flow, heat and mass transfer problems of practical engineering interest.
MIS	399	Applied Business Intelligence	3	Business Intelligence as applied to managerial decision making. Examination of techniques including business analytics, data visualization, scorecards, dashboards and data mining. Business performance management as an approach to decision making will be stressed.
PSCI	499	Pharmaceutical Sciences	1	Recent advances in pharmaceutical research. Pharm.D. students only.
WS	499	Systems of Oppression	3	Course will introduce students to systems of oppression, specifically related to gender, race, class, and sexual orientation. Course will explore impact of oppressive systems on the individual, group, and societal level.